



## Construction du nouveau bâtiment SAMU / SMUR du CHU Grenoble Alpes

**DCE**

### Liste de points GTE

|                           |                                                                                                                                                 |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| MAITRE D'OUVRAGE :        | <b>Etablissement support du GHT Alpes Dauphiné :</b><br>Centre Hospitalier Universitaire Grenoble Alpes<br>CS 10217<br>38 043 GRENOBLE Cedex 09 |
| ARCHITECTE                | <b>A26</b>                                                                                                                                      |
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| BUREAU D'ETUDES :         | <b>BETREC IG</b>                                                                                                                                |
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| OPC :                     | <b>DUO REALISATIONS</b><br>64 route de Paris, 73100 BRISON ST INNOCENT                                                                          |
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| CSPS :                    | <b>BUREAU VERITAS</b><br>Zi De La Grande Ile Techniparc, 395 Rue du Dr Marmonnier,<br>38190 Villard-Bonnot                                      |

|           |            |                  |              |
|-----------|------------|------------------|--------------|
| PHASE :   | DCE        | EMETTEUR : IKUMA | DOCUMENT N°  |
| DATE      | 18/05/2026 | N° de LOT : 20   | <b>PE16b</b> |
| AFFAIRE : | 24006      |                  | INDICE : 0   |

| CELLULE IM N°1                                     |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |                       |
|----------------------------------------------------|-----|--------|-------|------|------|------|------|-----------|------|-------|----|----|----|----|-----------------------|
| Libellé                                            | TAG | Filare | COM   | ETOR | EANA | STOR | SANA | TA        | NFNO | Appel | TS | TM | TC | TR | Commentaire           |
| CELLULE IM                                         |     | 3      | 0     | 3    | 0    | 0    | 0    | 0         | 0    | 0     | 3  | 0  | 0  | 0  |                       |
| Interrupteur Ouvert cellule IM vers Poste T20      |     | 1      |       | 1    |      |      |      |           |      |       | 1  |    |    |    |                       |
| Interrupteur Fermé cellule IM vers Poste T20       |     | 1      |       | 1    |      |      |      |           |      |       | 1  |    |    |    |                       |
| Commande neutralisée cellule IM vers Poste T20     |     | 1      |       | 1    |      |      |      |           |      |       | 1  |    |    |    |                       |
| CELLULE IM N°2                                     |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |                       |
| Libellé                                            | TAG | Filare | COM   | ETOR | EANA | STOR | SANA | TA        | NFNO | Appel | TS | TM | TC | TR | Commentaire           |
| CELLULE IM                                         |     | 3      | 0     | 3    | 0    | 0    | 0    | 0         | 0    | 0     | 3  | 0  | 0  | 0  |                       |
| Interrupteur Ouvert cellule IM vers Poste T40      |     | 1      |       | 1    |      |      |      |           |      |       | 1  |    |    |    |                       |
| Interrupteur Fermé cellule IM vers Poste T40       |     | 1      |       | 1    |      |      |      |           |      |       | 1  |    |    |    |                       |
| Commande neutralisée cellule IM vers Poste T40     |     | 1      |       | 1    |      |      |      |           |      |       | 1  |    |    |    |                       |
| CELLULE QM SAMU 1                                  |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |                       |
| Libellé                                            | TAG | Filare | COM   | ETOR | EANA | STOR | SANA | TA        | NFNO | Appel | TS | TM | TC | TR | Commentaire           |
| CELLULE QM                                         |     | 4      | 0     | 3    | 0    | 0    | 0    | 2         | 0    | 2     | 2  | 0  | 0  | 0  |                       |
| Interrupteur Ouvert cellule QM départ Transfo n°1  |     | 1      |       | 1    |      |      |      |           |      |       | 1  |    |    |    |                       |
| Interrupteur Fermé cellule QM départ Transfo n°1   |     | 1      |       | 1    |      |      |      |           |      |       | 1  |    |    |    |                       |
| Fusion fusible cellule QM départ Transfo n°1       |     | 1      |       | 1    |      |      |      | 1         |      | 1     |    |    |    |    |                       |
| Défaut homopolaire cellule QM départ Transfo n°1   |     | 1      |       |      |      |      |      | 1         |      | 1     |    |    |    |    |                       |
| CELLULE QM SAMU 2                                  |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |                       |
| Libellé                                            | TAG | Filare | COM   | ETOR | EANA | STOR | SANA | TA        | NFNO | Appel | TS | TM | TC | TR | Commentaire           |
| CELLULE QM                                         |     | 4      | 0     | 3    | 0    | 0    | 0    | 2         | 0    | 2     | 2  | 0  | 0  | 0  |                       |
| Interrupteur Ouvert cellule QM départ Transfo n°2  |     | 1      |       | 1    |      |      |      |           |      |       | 1  |    |    |    |                       |
| Interrupteur Fermé cellule QM départ Transfo n°2   |     | 1      |       | 1    |      |      |      |           |      |       | 1  |    |    |    |                       |
| Fusion fusible cellule QM départ Transfo n°2       |     | 1      |       | 1    |      |      |      | 1         |      | 1     |    |    |    |    |                       |
| Défaut homopolaire cellule QM départ Transfo n°2   |     | 1      |       |      |      |      |      | 1         |      | 1     |    |    |    |    |                       |
| CELLULE QM IRVE                                    |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |                       |
| Libellé                                            | TAG | Filare | COM   | ETOR | EANA | STOR | SANA | TA        | NFNO | Appel | TS | TM | TC | TR | Commentaire           |
| CELLULE QM                                         |     | 4      | 0     | 3    | 0    | 0    | 0    | 2         | 0    | 2     | 2  | 0  | 0  | 0  |                       |
| Interrupteur Ouvert cellule QM départ Transfo IRVE |     | 1      |       | 1    |      |      |      |           |      |       | 1  |    |    |    |                       |
| Interrupteur Fermé cellule QM départ Transfo IRVE  |     | 1      |       | 1    |      |      |      |           |      |       | 1  |    |    |    |                       |
| Fusion fusible cellule QM départ Transfo IRVE      |     | 1      |       | 1    |      |      |      | 1         |      | 1     |    |    |    |    |                       |
| Défaut homopolaire cellule QM départ Transfo IRVE  |     | 1      |       |      |      |      |      | 1         |      | 1     |    |    |    |    |                       |
| CELLULE QM Réserve                                 |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |                       |
| Libellé                                            | TAG | Filare | COM   | ETOR | EANA | STOR | SANA | TA        | NFNO | Appel | TS | TM | TC | TR | Commentaire           |
| CELLULE QM                                         |     | 4      | 0     | 3    | 0    | 0    | 0    | 2         | 0    | 2     | 2  | 0  | 0  | 0  |                       |
| Interrupteur Ouvert cellule QM départ Transfo IRVE |     | 1      |       | 1    |      |      |      |           |      |       | 1  |    |    |    |                       |
| Interrupteur Fermé cellule QM départ Transfo IRVE  |     | 1      |       | 1    |      |      |      |           |      |       | 1  |    |    |    |                       |
| Fusion fusible cellule QM départ Transfo IRVE      |     | 1      |       | 1    |      |      |      | 1         |      | 1     |    |    |    |    |                       |
| Défaut homopolaire cellule QM départ Transfo IRVE  |     | 1      |       |      |      |      |      | 1         |      | 1     |    |    |    |    |                       |
| TRANSFO SEC 1000 kVA SAMU 1                        |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |                       |
| Libellé                                            | TAG | Filare | COM   | ETOR | EANA | STOR | SANA | TA        | NFNO | Appel | TS | TM | TC | TR | Commentaire           |
| TRANSFO                                            |     | 5      | 0     | 4    | 1    | 0    | 0    | 5         | 0    | 2     | 0  | 1  | 0  | 2  |                       |
| 1er Seuil Température transfo - Alarme             |     | 1      |       | 1    |      |      |      | 1         |      | 1     |    |    |    |    |                       |
| 2ième Seuil Température transfo - déclenchement    |     | 1      |       | 1    |      |      |      | 1         |      | 1     |    |    |    |    |                       |
| T° local                                           |     | 1      |       | 1    |      | 1    |      | 1         |      |       |    | 1  |    | 1  | Mesure- seuil -Alarme |
| default ventilation 1 local                        |     | 1      |       | 1    |      |      |      | 1         |      |       |    |    |    |    |                       |
| default ventilation 2 local                        |     | 1      |       | 1    |      |      |      | 1         |      |       |    |    |    |    |                       |
| TRANSFO SEC 1000 kVA SAMU 2                        |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |                       |
| Libellé                                            | TAG | Filare | COM   | ETOR | EANA | STOR | SANA | TA        | NFNO | Appel | TS | TM | TC | TR | Commentaire           |
| TRANSFO                                            |     | 5      | 0     | 4    | 1    | 0    | 0    | 5         | 0    | 2     | 0  | 1  | 0  | 2  |                       |
| 1er Seuil Température transfo - Alarme             |     | 1      |       | 1    |      |      |      | 1         |      | 1     |    |    |    | 1  |                       |
| 2ième Seuil Température transfo - déclenchement    |     | 1      |       | 1    |      |      |      | 1         |      | 1     |    |    |    |    |                       |
| T° local                                           |     | 1      |       | 1    |      | 1    |      | 1         |      |       |    | 1  |    | 1  | Mesure- seuil -Alarme |
| default ventilation 1 local                        |     | 1      |       | 1    |      |      |      | 1         |      |       |    |    |    |    |                       |
| default ventilation 2 local                        |     | 1      |       | 1    |      |      |      | 1         |      |       |    |    |    |    |                       |
| TRANSFO SEC IRVE (Réserve)                         |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |                       |
| Libellé                                            | TAG | Filare | COM   | ETOR | EANA | STOR | SANA | TA        | NFNO | Appel | TS | TM | TC | TR | Commentaire           |
| TRANSFO                                            |     | 5      | 0     | 4    | 1    | 0    | 0    | 5         | 0    | 2     | 0  | 1  | 0  | 2  |                       |
| 1er Seuil Température transfo - Alarme             |     | 1      |       | 1    |      |      |      | 1         |      | 1     |    |    |    | 1  |                       |
| 2ième Seuil Température transfo - déclenchement    |     | 1      |       | 1    |      |      |      | 1         |      | 1     |    |    |    |    |                       |
| T° local                                           |     | 1      |       | 1    |      | 1    |      | 1         |      |       |    | 1  |    | 1  | Mesure- seuil -Alarme |
| default ventilation 1 local                        |     | 1      |       | 1    |      |      |      | 1         |      |       |    |    |    |    |                       |
| default ventilation 2 local                        |     | 1      |       | 1    |      |      |      | 1         |      |       |    |    |    |    |                       |
| CENTRALE DE MESURE Protection transfo SAMU 1       |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |                       |
| Libellé                                            | TAG | Filare | COM   | ETOR | EANA | STOR | SANA | TA        | NFNO | Appel | TS | TM | TC | TR | Commentaire           |
| CENTRALE DE MESURE                                 |     | 0      | 1     | 1    | 0    | 0    | 0    | 0         | 0    | 0     | 0  | 27 | 0  | 11 |                       |
| Mesure intensité I0                                |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |                       |
| I0 Maximum                                         |     |        |       |      |      |      |      |           |      |       |    |    | 1  |    | RAZ Max               |
| Mesure intensité I1                                |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |                       |
| I1 Maximum                                         |     |        |       |      |      |      |      |           |      |       |    |    | 1  |    | RAZ Max               |
| Mesure intensité I2                                |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |                       |
| I2 Maximum                                         |     |        |       |      |      |      |      |           |      |       |    |    | 1  |    | RAZ Max               |
| Mesure intensité I3                                |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |                       |
| I3 Maximum                                         |     |        |       |      |      |      |      |           |      |       |    |    | 1  |    | RAZ Max               |
| Mesure Tension U0                                  |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |                       |
| U0 Maximum                                         |     |        |       |      |      |      |      |           |      |       |    |    | 1  |    | RAZ Max               |
| Mesure Tension U1                                  |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |                       |
| U1 Maximum                                         |     |        |       |      |      |      |      |           |      |       |    |    | 1  |    | RAZ Max               |
| Mesure Tension U2                                  |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |                       |
| U2 Maximum                                         |     |        |       |      |      |      |      |           |      |       |    |    | 1  |    | RAZ Max               |
| Mesure Tension U3                                  |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |                       |
| U3 Maximum                                         |     |        |       |      |      |      |      |           |      |       |    |    | 1  |    | RAZ Max               |
| Mesure Fréquence                                   |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |                       |
| Mesure cos phi                                     |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |                       |
| Mesure puissance Active PA                         |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |                       |
| Max PA                                             |     |        |       |      |      |      |      |           |      |       |    |    | 1  |    | RAZ Max               |
| Mesure puissance réactive                          |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |                       |
| Max PR                                             |     |        |       |      |      |      |      |           |      |       |    |    | 1  |    | RAZ Max               |
| Mesure puissance apparante PAP                     |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |                       |
| Max PAP                                            |     |        |       |      |      |      |      |           |      |       |    |    | 1  |    | RAZ Max               |
| Mesure Energie active                              |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |                       |
| Mesure Energie Réactive                            |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |                       |
| Mesure Energie apparente                           |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |                       |
| CENTRALE DE MESURE Protection transfo SAMU 2       |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |                       |
| Libellé                                            | TAG | Filare | COM   | ETOR | EANA | STOR | SANA | TA        | NFNO | Appel | TS | TM | TC | TR | Commentaire           |
| CENTRALE DE MESURE                                 |     | 0      | 1     | 1    | 0    | 0    | 0    | 0         | 0    | 0     | 0  | 27 | 0  | 11 |                       |
| Mesure intensité I0                                |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |                       |
| I0 Maximum                                         |     |        |       |      |      |      |      |           |      |       |    |    | 1  |    | RAZ Max               |

[illegible]

| CENTRALE DE MESURE Protection AGBT D.VILLARD |     | LIASON   |          | API      |          |          |          | SCADA API |          |          |          |           |          |           |             |
|----------------------------------------------|-----|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|-----------|----------|-----------|-------------|
| Libellé                                      | TAG | Blaise   | COM      | ETOR     | EANA     | STOR     | SANA     | TA        | NFNO     | Appel    | TS       | TM        | TC       | TR        | Commentaire |
| <b>CENTRALE DE MESURE</b>                    |     | <b>0</b> | <b>1</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>  | <b>0</b> | <b>0</b> | <b>0</b> | <b>27</b> | <b>0</b> | <b>11</b> |             |
| Mesure intensité I0                          |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| I0 Maximum                                   |     |          |          |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure intensité I1                          |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| I1 Maximum                                   |     |          |          |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure intensité I2                          |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| I2 Maximum                                   |     |          |          |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure intensité I3                          |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| I3 Maximum                                   |     |          |          |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure Tension U0                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U0 Maximum                                   |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U1                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U1 Maximum                                   |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U2                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U2 Maximum                                   |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U3                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U3 Maximum                                   |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Fréquence                             |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure cos phi                               |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure puissance Active PA                   |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PA                                       |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure puissance réactive                    |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PR                                       |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure puissance apparante PAP               |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PAP                                      |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Energie active                        |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure Energie Réactive                      |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure Energie apparence                     |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |

| CENTRALE DE MESURE Protection Coffret IRVE ancien T30 |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |             |
|-------------------------------------------------------|-----|--------|-------|------|------|------|------|-----------|------|-------|----|----|----|----|-------------|
| Libellé                                               | TAG | filare | COM   | ETOR | EANA | STOR | SANA | FA        | NFAO | Appel | FS | FM | FC | FR | Commentaire |
| <b>CENTRALE DE MESURE</b>                             |     | 0      | 1     | 1    | 0    | 0    | 0    | 0         | 0    | 0     | 0  | 27 | 0  | 11 |             |
| Mesure intensité I0                                   |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I0 Maximum                                            |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I1                                   |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I1 Maximum                                            |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I2                                   |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I2 Maximum                                            |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I3                                   |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I3 Maximum                                            |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U0                                     |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U0 Maximum                                            |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U1                                     |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U1 Maximum                                            |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U2                                     |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U2 Maximum                                            |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U3                                     |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U3 Maximum                                            |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Fréquence                                      |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure cos phi                                        |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure puissance Active PA                            |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PA                                                |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance réactive                             |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PR                                                |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance apparante PAP                        |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PAP                                               |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Energie active                                 |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie Réactive                               |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie apparante                              |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |

| CENTRALE DE MESURE Protection Groupe électrogène mobile |     | LIASON   |          | API      |          |          |          | SCADA API |          |          |          |           |          |           |             |
|---------------------------------------------------------|-----|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|-----------|----------|-----------|-------------|
| Libellé                                                 | TAG | Rece     | COM      | ETOR     | EANA     | STOR     | SANA     | TA        | NFNO     | Appel    | TS       | TM        | TC       | TR        | Commentaire |
| <b>CENTRALE DE MESURE</b>                               |     | <b>0</b> | <b>1</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>  | <b>0</b> | <b>0</b> | <b>0</b> | <b>27</b> | <b>0</b> | <b>11</b> |             |
| Mesure intensité I0                                     |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| I0 Maximum                                              |     |          |          |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure intensité I1                                     |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| I1 Maximum                                              |     |          |          |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure intensité I2                                     |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| I2 Maximum                                              |     |          |          |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure intensité I3                                     |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| I3 Maximum                                              |     |          |          |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure Tension U0                                       |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U0 Maximum                                              |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U1                                       |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U1 Maximum                                              |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U2                                       |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U2 Maximum                                              |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U3                                       |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U3 Maximum                                              |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Fréquence                                        |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure cos phi                                          |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure puissance Active PA                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PA                                                  |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure puissance réactive                               |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PR                                                  |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure puissance apparante PAP                          |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PAP                                                 |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Energie active                                   |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure Energie Réactive                                 |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure Energie apparante                                |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |

| CENTRALE DE MESURE Protection TD00-B attache 1 |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |             |
|------------------------------------------------|-----|--------|-------|------|------|------|------|-----------|------|-------|----|----|----|----|-------------|
| Libellé                                        | TAG | Itaire | COM   | ETOR | EANA | STOR | SANA | TA        | NFNO | Appel | TS | TM | TC | TR | Commentaire |
| CENTRALE DE MESURE                             |     | 0      | 1     | 1    | 0    | 0    | 0    | 0         | 0    | 0     | 0  | 27 | 0  | 11 |             |
| Mesure intensité I0                            |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I0 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I1                            |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I1 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I2                            |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I2 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I3                            |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I3 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U0                              |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U0 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U1                              |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U1 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U2                              |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U2 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U3                              |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U3 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Fréquence                               |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure cos phi                                 |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure puissance Active PA                     |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PA                                         |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance réactive                      |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PR                                         |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance apparante PAP                 |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PAP                                        |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Energie active                          |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie Réactive                        |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie apparence                       |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |

| CENTRALE DE MESURE Protection TD00-B attache 2 |     |        | LIASON |      | API  |      |      |    | SCADA API |       |    |    |    |    |             |
|------------------------------------------------|-----|--------|--------|------|------|------|------|----|-----------|-------|----|----|----|----|-------------|
| Libellé                                        | TAG | Itaire | COM    | ETOR | EANA | STOR | SANA | TA | NFNO      | Appel | TS | TM | TC | TR | Commentaire |
| CENTRALE DE MESURE                             |     |        |        |      |      |      |      |    |           |       |    |    |    |    |             |
| Mesure intensité I0                            |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| I0 Maximum                                     |     |        |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I1                            |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| I1 Maximum                                     |     |        |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I2                            |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| I2 Maximum                                     |     |        |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I3                            |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| I3 Maximum                                     |     |        |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U0                              |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| U0 Maximum                                     |     |        |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U1                              |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| U1 Maximum                                     |     |        |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U2                              |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| U2 Maximum                                     |     |        |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U3                              |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| U3 Maximum                                     |     |        |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Fréquence                               |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| Mesure cos phi                                 |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| Mesure puissance Active PA                     |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| Max PA                                         |     |        |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance réactive                      |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| Max PR                                         |     |        |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance apparante PAP                 |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| Max PAP                                        |     |        |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Energie active                          |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| Mesure Energie Réactive                        |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| Mesure Energie apparence                       |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |

| CENTRALE DE MESURE Protection TD00-D attache 1 |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |             |
|------------------------------------------------|-----|--------|-------|------|------|------|------|-----------|------|-------|----|----|----|----|-------------|
| Libellé                                        | TAG | Itaire | COM   | ETOR | EANA | STOR | SANA | TA        | NFNO | Appel | TS | TM | TC | TR | Commentaire |
| CENTRALE DE MESURE                             |     | 0      | 1     | 1    | 0    | 0    | 0    | 0         | 0    | 0     | 0  | 27 | 0  | 11 |             |
| Mesure intensité I0                            |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I0 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I1                            |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I1 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I2                            |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I2 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I3                            |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I3 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U0                              |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U0 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U1                              |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U1 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U2                              |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U2 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U3                              |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U3 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Fréquence                               |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure cos phi                                 |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure puissance Active PA                     |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PA                                         |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance réactive                      |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PR                                         |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance apparante PAP                 |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PAP                                        |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Energie active                          |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie Réactive                        |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie apparence                       |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |

| CENTRALE DE MESURE Protection TD00-D attache 2 |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |             |
|------------------------------------------------|-----|--------|-------|------|------|------|------|-----------|------|-------|----|----|----|----|-------------|
| Libellé                                        | TAG | Itaire | COM   | ETOR | EANA | STOR | SANA | TA        | NFNO | Appel | TS | TM | TC | TR | Commentaire |
| CENTRALE DE MESURE                             |     | 0      | 1     | 1    | 0    | 0    | 0    | 0         | 0    | 0     | 0  | 27 | 0  | 11 |             |
| Mesure intensité I0                            |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I0 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I1                            |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I1 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I2                            |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I2 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I3                            |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I3 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U0                              |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U0 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U1                              |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U1 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U2                              |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U2 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U3                              |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U3 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Fréquence                               |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure cos phi                                 |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure puissance Active PA                     |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PA                                         |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance réactive                      |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PR                                         |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |

[illegible]

| CENTRALE DE MESURE Protection TD01-B attache 1 |     | LIASON   |          | API      |          |          |          | SCADA API |          |          |          |           |          |           |             |
|------------------------------------------------|-----|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|-----------|----------|-----------|-------------|
| Libellé                                        | TAG | Rece     | COM      | ETOR     | EANA     | STOR     | SANA     | TA        | AFNO     | Appel    | TS       | TM        | TC       | TR        | Commentaire |
| <b>CENTRALE DE MESURE</b>                      |     | <b>0</b> | <b>1</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>  | <b>0</b> | <b>0</b> | <b>0</b> | <b>27</b> | <b>0</b> | <b>11</b> |             |
| Mesure intensité I0                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I0 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I1                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I1 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I2                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I2 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I3                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I3 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U0                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U0 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U1                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U1 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U2                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U2 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U3                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U3 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Fréquence                               |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure cos phi                                 |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure puissance Active PA                     |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PA                                         |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure puissance réactive                      |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PR                                         |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure puissance apparante PAP                 |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PAP                                        |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Energie active                          |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure Energie Réactive                        |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure Energie apparente                       |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |

| CENTRALE DE MESURE Protection TD01-B attache 2 |     | LIASON   |          | API      |          |          |          | SCADA API |          |          |          |           |          |           |             |
|------------------------------------------------|-----|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|-----------|----------|-----------|-------------|
| Libellé                                        | TAG | Idare    | COM      | ETOR     | EANA     | ETOR     | SANA     | TA        | NFNG     | Appel    | TS       | TM        | TC       | TR        | Commentaire |
| <b>CENTRALE DE MESURE</b>                      |     | <b>0</b> | <b>1</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>  | <b>0</b> | <b>0</b> | <b>0</b> | <b>27</b> | <b>0</b> | <b>11</b> |             |
| Mesure intensité I0                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I0 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I1                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I1 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I2                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I2 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I3                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I3 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U0                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U0 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U1                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U1 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U2                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U2 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U3                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U3 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Fréquence                               |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure cos phi                                 |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure puissance Active PA                     |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PA                                         |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure puissance réactive                      |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PR                                         |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure puissance apparante PAP                 |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PAP                                        |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Energie active                          |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure Energie Réactive                        |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure Energie apparente                       |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |

| CENTRALE DE MESURE Protection TD01-D attache 1 |     | LIASON |       | API  |      |      |      | SCADA API |      |      |    |    |    |    |             |
|------------------------------------------------|-----|--------|-------|------|------|------|------|-----------|------|------|----|----|----|----|-------------|
| Libellé                                        | TAG | Haie   | COM   | ETOR | EANA | STOR | SANA | TA        | VFNG | Egal | TS | TM | TC | TR | Commentaire |
| <b>CENTRALE DE MESURE</b>                      |     | 0      | 1     | 1    | 0    | 0    | 0    | 0         | 0    | 0    | 0  | 27 | 0  | 11 |             |
| Mesure intensité I0                            |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| I0 Maximum                                     |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I1                            |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| I1 Maximum                                     |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I2                            |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| I2 Maximum                                     |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I3                            |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| I3 Maximum                                     |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U0                              |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| U0 Maximum                                     |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U1                              |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| U1 Maximum                                     |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U2                              |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| U2 Maximum                                     |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U3                              |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| U3 Maximum                                     |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure Fréquence                               |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| Mesure cos phi                                 |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| Mesure puissance Active PA                     |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| Max PA                                         |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance réactive                      |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| Max PR                                         |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance apparante PAP                 |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| Max PAP                                        |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure Energie active                          |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| Mesure Energie Réactive                        |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| Mesure Energie apparente                       |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |

| CENTRALE DE MESURE Protection TD01-D attache 2 |     | LIASON   |          | API      |          |          |          | SCADA API |          |          |          |           |          |           |             |
|------------------------------------------------|-----|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|-----------|----------|-----------|-------------|
| Libellé                                        | TAG | Statut   | COM      | ETOR     | EANA     | STOR     | SANA     | TA        | APND     | Apogé    | TS       | TM        | TC       | TR        | Commentaire |
| <b>CENTRALE DE MESURE</b>                      |     | <b>0</b> | <b>1</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>  | <b>0</b> | <b>0</b> | <b>0</b> | <b>27</b> | <b>0</b> | <b>11</b> |             |
| Mesure intensité I0                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I0 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I1                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I1 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I2                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I2 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I3                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I3 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U0                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U0 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U1                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U1 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U2                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U2 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U3                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U3 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |

[illegible]

| CENTRALE DE MESURE Protection TD02-B attache 1 |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |             |
|------------------------------------------------|-----|--------|-------|------|------|------|------|-----------|------|-------|----|----|----|----|-------------|
| Libellé                                        | TAG | Haute  | COM   | ETOR | EANA | BTOR | SANA | TA        | NFNO | Appel | TS | TM | TC | TR | Commentaire |
| <b>CENTRALE DE MESURE</b>                      |     | 0      | 1     | 1    | 0    | 0    | 0    | 0         | 0    | 0     | 0  | 27 | 0  | 11 |             |
| Mesure intensité I0                            |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I0 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I1                            |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I1 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I2                            |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I2 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I3                            |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I3 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U0                              |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U0 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U1                              |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U1 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U2                              |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U2 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U3                              |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U3 Maximum                                     |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Fréquence                               |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure cos phi                                 |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure puissance Active PA                     |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PA                                         |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance réactive                      |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PR                                         |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance apparante PAP                 |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PAP                                        |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Energie active                          |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie Réactive                        |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie apparence                       |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |

| CENTRALE DE MESURE Protection TD02-B attache 2 |     | LIASON   |          | API      |          |          |          | SCADA API |          |          |          |           |          |           |             |
|------------------------------------------------|-----|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|-----------|----------|-----------|-------------|
| Libellé                                        | TAG | liaire   | COM      | ETOR     | EANA     | STOR     | SANA     | TA        | NFRO     | Appel    | TS       | TM        | TC       | TR        | Commentaire |
| <b>CENTRALE DE MESURE</b>                      |     | <b>0</b> | <b>1</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>  | <b>0</b> | <b>0</b> | <b>0</b> | <b>27</b> | <b>0</b> | <b>11</b> |             |
| Mesure intensité I0                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I0 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I1                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I1 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I2                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I2 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I3                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I3 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U0                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U0 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U1                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U1 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U2                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U2 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U3                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U3 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Fréquence                               |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure cos phi                                 |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure puissance Active PA                     |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PA                                         |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure puissance réactive                      |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PR                                         |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure puissance apparante PAP                 |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PAP                                        |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Energie active                          |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure Energie Réactive                        |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure Energie apparence                       |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |

| CENTRALE DE MESURE Protection TD02-D attache 1 |     | LIASON   |          | API      |          |          |          | SCADA API |          |          |          |           |          |           |             |
|------------------------------------------------|-----|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|-----------|----------|-----------|-------------|
| Libellé                                        | TAG | Blaise   | COM      | ETOR     | EANA     | STOR     | SANA     | TA        | NFNO     | Appel    | TS       | TM        | TC       | TR        | Commentaire |
| <b>CENTRALE DE MESURE</b>                      |     | <b>0</b> | <b>1</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>  | <b>0</b> | <b>0</b> | <b>0</b> | <b>27</b> | <b>0</b> | <b>11</b> |             |
| Mesure intensité I0                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| I0 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure intensité I1                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| I1 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I2                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I2 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I3                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I3 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U0                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U0 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U1                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U1 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U2                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U2 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U3                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U3 Maximum                                     |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Fréquence                               |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure cos phi                                 |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure puissance Active PA                     |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PA                                         |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure puissance réactive                      |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PR                                         |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure puissance apparante PAP                 |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PAP                                        |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Energie active                          |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure Energie Réactive                        |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure Energie apparence                       |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |

| CENTRALE DE MESURE Protection TD02-D attache 2 |     | LIASON |       | API  |      |      |      | SCADA API |      |      |    |    |    |    |             |
|------------------------------------------------|-----|--------|-------|------|------|------|------|-----------|------|------|----|----|----|----|-------------|
| Libellé                                        | TAG | liaire | COM   | ETOR | EANA | STOR | SANA | TA        | NFNO | Apel | TS | TM | TC | TR | Commentaire |
| <b>CENTRALE DE MESURE</b>                      |     | 0      | 1     | 1    | 0    | 0    | 0    | 0         | 0    | 0    | 0  | 27 | 0  | 11 |             |
| Mesure intensité I0                            |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| I0 Maximum                                     |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I1                            |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| I1 Maximum                                     |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I2                            |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| I2 Maximum                                     |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I3                            |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| I3 Maximum                                     |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U0                              |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| U0 Maximum                                     |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |

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| CENTRALE DE MESURE Protection Onduleur 1 attache 1 |     | LIASON   |          | API      |          |          |          | SCADA API |          |          |          |           |          |           |             |
|----------------------------------------------------|-----|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|-----------|----------|-----------|-------------|
| Libellé                                            | TAG | Rece     | COM      | ETOR     | EANA     | STOR     | SANA     | TA        | NFNO     | Appel    | TS       | TM        | TC       | TR        | Commentaire |
| <b>CENTRALE DE MESURE</b>                          |     | <b>0</b> | <b>1</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>  | <b>0</b> | <b>0</b> | <b>0</b> | <b>27</b> | <b>0</b> | <b>11</b> |             |
| Mesure intensité I0                                |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I0 Maximum                                         |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I1                                |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I1 Maximum                                         |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I2                                |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I2 Maximum                                         |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I3                                |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I3 Maximum                                         |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U0                                  |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U0 Maximum                                         |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U1                                  |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U1 Maximum                                         |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U2                                  |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U2 Maximum                                         |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U3                                  |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U3 Maximum                                         |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Fréquence                                   |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure cos phi                                     |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure puissance Active PA                         |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PA                                             |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure puissance réactive                          |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PR                                             |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure puissance apparante PAP                     |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PAP                                            |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Energie active                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure Energie Réactive                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure Energie apparence                           |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |

| CENTRALE DE MESURE Protection Onduleur 1 attache 2 |     | LIASON   |          | API      |          |          |          | SCADA API |          |          |          |           |          |           |             |
|----------------------------------------------------|-----|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|-----------|----------|-----------|-------------|
| Libellé                                            | TAG | Haute    | DOM      | ETOR     | EANA     | STOR     | SANA     | TA        | WFOG     | Appli    | TS       | TM        | TC       | TR        | Commentaire |
| <b>CENTRALE DE MESURE</b>                          |     | <b>0</b> | <b>1</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>  | <b>0</b> | <b>0</b> | <b>0</b> | <b>27</b> | <b>0</b> | <b>11</b> |             |
| Mesure intensité I0                                |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I0 Maximum                                         |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I1                                |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I1 Maximum                                         |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I2                                |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I2 Maximum                                         |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I3                                |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I3 Maximum                                         |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U0                                  |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U0 Maximum                                         |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U1                                  |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U1 Maximum                                         |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U2                                  |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U2 Maximum                                         |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U3                                  |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U3 Maximum                                         |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Fréquence                                   |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure cos phi                                     |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure puissance Active PA                         |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PA                                             |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure puissance réactive                          |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PR                                             |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure puissance apparante PAP                     |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PAP                                            |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Energie active                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure Energie Réactive                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure Energie apparence                           |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |

| CENTRALE DE MESURE Protection Onduleur 2 attache 1 |     | LIASON  |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |             |
|----------------------------------------------------|-----|---------|-------|------|------|------|------|-----------|------|-------|----|----|----|----|-------------|
| Libellé                                            | TAG | Adresse | COM   | ETOR | EANA | STOR | SANA | TA        | VFNG | Appel | TS | TM | TC | TR | Commentaire |
| <b>CENTRALE DE MESURE</b>                          |     | 0       | 1     | 1    | 0    | 0    | 0    | 0         | 0    | 0     | 0  | 27 | 0  | 11 |             |
| Mesure intensité I0                                |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I0 Maximum                                         |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I1                                |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I1 Maximum                                         |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I2                                |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I2 Maximum                                         |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I3                                |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I3 Maximum                                         |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U0                                  |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U0 Maximum                                         |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U1                                  |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U1 Maximum                                         |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U2                                  |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U2 Maximum                                         |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U3                                  |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U3 Maximum                                         |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Fréquence                                   |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure cos phi                                     |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure puissance Active PA                         |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PA                                             |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance réactive                          |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PR                                             |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance apparante PAP                     |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PAP                                            |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Energie active                              |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie Réactive                            |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie apparence                           |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |

| CENTRALE DE MESURE Protection Onduleur 2 attache 2 |     |         | LIASON |      | API   |       |       |    | SCADA API |       |       |    |    |    |    |             |
|----------------------------------------------------|-----|---------|--------|------|-------|-------|-------|----|-----------|-------|-------|----|----|----|----|-------------|
| Libellé                                            | TAG | Adresse | COM    | ETDR | ENANA | ESTDR | ENANA | TA | AFRNO     | AFRNO | AFRNO | TS | TM | TC | TR | Commentaire |
| CENTRALE DE MESURE                                 |     | 0       | 1      | 1    | 0     | 0     | 0     | 0  | 0         | 0     | 0     | 0  | 27 | 0  | 11 |             |
| Mesure intensité I0                                |     |         | RS485  |      |       |       |       |    |           |       |       |    |    |    |    |             |
| I0 Maximum                                         |     |         |        |      |       |       |       |    |           |       |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I1                                |     |         | RS485  |      |       |       |       |    |           |       |       |    |    |    |    |             |
| I1 Maximum                                         |     |         |        |      |       |       |       |    |           |       |       |    |    | 1  | 1  | RAZ Max     |

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| CENTRALE DE MESURE Protection Onduleur 3 attache 1 |     |         | LIASON |      | API  |      |      |    | SCADA API |       |    |    |    |    |             |
|----------------------------------------------------|-----|---------|--------|------|------|------|------|----|-----------|-------|----|----|----|----|-------------|
| Libellé                                            | TAG | liaison | COM    | ETOR | EANA | STOR | SUNA | TA | VFNG      | Aggrd | TS | TM | TC | TR | Commentaire |
| CENTRALE DE MESURE                                 |     | 0       | 1      | 1    | 0    | 0    | 0    | 0  | 0         | 0     | 0  | 27 | 0  | 11 |             |
| Mesure intensité I0                                |     |         | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| I0 Maximum                                         |     |         |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I1                                |     |         | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| I1 Maximum                                         |     |         |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I2                                |     |         | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| I2 Maximum                                         |     |         |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I3                                |     |         | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| I3 Maximum                                         |     |         |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U0                                  |     |         | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| U0 Maximum                                         |     |         |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U1                                  |     |         | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| U1 Maximum                                         |     |         |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U2                                  |     |         | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| U2 Maximum                                         |     |         |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U3                                  |     |         | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| U3 Maximum                                         |     |         |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Fréquence                                   |     |         | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| Mesure cos phi                                     |     |         | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| Mesure puissance Active PA                         |     |         | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| Max PA                                             |     |         |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance réactive                          |     |         | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| Max PR                                             |     |         |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance apparante PAP                     |     |         | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| Max PAP                                            |     |         |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Energie active                              |     |         | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| Mesure Energie Réactive                            |     |         | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |
| Mesure Energie apparence                           |     |         | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |

| CENTRALE DE MESURE Protection Onduleur 3 attache 2 |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |             |
|----------------------------------------------------|-----|--------|-------|------|------|------|------|-----------|------|-------|----|----|----|----|-------------|
| Libellé                                            | TAG | liaire | QOM   | ETOR | EANA | STOR | SANA | TA        | WFNO | Appel | TS | TM | TC | TR | Commentaire |
| <b>CENTRALE DE MESURE</b>                          |     | 0      | 1     | 1    | 0    | 0    | 0    | 0         | 0    | 0     | 0  | 27 | 0  | 11 |             |
| Mesure intensité I0                                |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I0 Maximum                                         |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I1                                |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I1 Maximum                                         |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I2                                |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I2 Maximum                                         |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I3                                |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I3 Maximum                                         |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U0                                  |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U0 Maximum                                         |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U1                                  |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U1 Maximum                                         |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U2                                  |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U2 Maximum                                         |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U3                                  |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U3 Maximum                                         |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Fréquence                                   |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure cos phi                                     |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure puissance Active PA                         |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PA                                             |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance réactive                          |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PR                                             |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance apparante PAP                     |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PAP                                            |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Energie active                              |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie Réactive                            |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie apparante                           |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |

| CENTRALE DE MESURE Protection TGHQ1 By-pass Externe |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |             |
|-----------------------------------------------------|-----|--------|-------|------|------|------|------|-----------|------|-------|----|----|----|----|-------------|
| Libellé                                             | TAG | Idaire | COM   | ETOR | IANA | ETOR | IANA | TA        | WFOG | appel | TS | TM | TC | TR | Commentaire |
| <b>CENTRALE DE MESURE</b>                           |     | 0      | 1     | 1    | 0    | 0    | 0    | 0         | 0    | 0     | 0  | 27 | 0  | 11 |             |
| Mesure intensité I0                                 |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I0 Maximum                                          |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I1                                 |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I1 Maximum                                          |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I2                                 |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I2 Maximum                                          |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I3                                 |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I3 Maximum                                          |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U0                                   |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U0 Maximum                                          |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U1                                   |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U1 Maximum                                          |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U2                                   |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U2 Maximum                                          |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U3                                   |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U3 Maximum                                          |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Fréquence                                    |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure cos phi                                      |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure puissance Active PA                          |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PA                                              |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance réactive                           |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PR                                              |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance apparante PAP                      |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PAP                                             |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Energie active                               |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie Réactive                             |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie apparence                            |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |

|                                                     |        |     |           |
|-----------------------------------------------------|--------|-----|-----------|
| CENTRALE DE MESURE Protection TGHQ2 Rv-pass Externe | LIASON | API | SCADA API |
|-----------------------------------------------------|--------|-----|-----------|

| Libellé                        | TAG | Itaire | COM   | ETOR | EANA | STOR | SANA | TA | NFNO | Appel | TS | Til | TC | TR | Commentaire |
|--------------------------------|-----|--------|-------|------|------|------|------|----|------|-------|----|-----|----|----|-------------|
| <b>CENTRALE DE MESURE</b>      |     | 0      | 1     | 1    | 0    | 0    | 0    | 0  | 0    | 0     | 0  | 27  | 0  | 11 |             |
| Mesure intensité I0            |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| I0 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure intensité I1            |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| I1 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure intensité I2            |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| I2 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure intensité I3            |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| I3 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Tension U0              |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| U0 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Tension U1              |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| U1 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Tension U2              |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| U2 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Tension U3              |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| U3 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Fréquence               |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| Mesure cos phi                 |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| Mesure puissance Active PA     |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| Max PA                         |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure puissance réactive      |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| Max PR                         |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure puissance apparante PAP |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| Max PAP                        |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Energie active          |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| Mesure Energie Réactive        |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| Mesure Energie apparante       |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |

| Libellé                        | TAG | LIASON | COM   | ETOR | EANA | STOR | SANA | TA | NFNO | Appel | TS | Til | TC | TR | Commentaire |
|--------------------------------|-----|--------|-------|------|------|------|------|----|------|-------|----|-----|----|----|-------------|
| <b>CENTRALE DE MESURE</b>      |     | 0      | 1     | 1    | 0    | 0    | 0    | 0  | 0    | 0     | 0  | 27  | 0  | 11 |             |
| Mesure intensité I0            |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| I0 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure intensité I1            |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| I1 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure intensité I2            |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| I2 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure intensité I3            |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| I3 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Tension U0              |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| U0 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Tension U1              |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| U1 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Tension U2              |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| U2 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Tension U3              |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| U3 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Fréquence               |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| Mesure cos phi                 |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| Mesure puissance Active PA     |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| Max PA                         |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure puissance réactive      |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| Max PR                         |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure puissance apparante PAP |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| Max PAP                        |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Energie active          |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| Mesure Energie Réactive        |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| Mesure Energie apparante       |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |

| Libellé                        | TAG | LIASON | COM   | ETOR | EANA | STOR | SANA | TA | NFNO | Appel | TS | Til | TC | TR | Commentaire |
|--------------------------------|-----|--------|-------|------|------|------|------|----|------|-------|----|-----|----|----|-------------|
| <b>CENTRALE DE MESURE</b>      |     | 0      | 1     | 1    | 0    | 0    | 0    | 0  | 0    | 0     | 0  | 27  | 0  | 11 |             |
| Mesure intensité I0            |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| I0 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure intensité I1            |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| I1 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure intensité I2            |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| I2 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure intensité I3            |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| I3 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Tension U0              |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| U0 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Tension U1              |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| U1 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Tension U2              |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| U2 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Tension U3              |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| U3 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Fréquence               |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| Mesure cos phi                 |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| Mesure puissance Active PA     |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| Max PA                         |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure puissance réactive      |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| Max PR                         |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure puissance apparante PAP |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| Max PAP                        |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Energie active          |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| Mesure Energie Réactive        |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| Mesure Energie apparante       |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |

| Libellé                        | TAG | LIASON | COM   | ETOR | EANA | STOR | SANA | TA | NFNO | Appel | TS | Til | TC | TR | Commentaire |
|--------------------------------|-----|--------|-------|------|------|------|------|----|------|-------|----|-----|----|----|-------------|
| <b>CENTRALE DE MESURE</b>      |     | 0      | 1     | 1    | 0    | 0    | 0    | 0  | 0    | 0     | 0  | 27  | 0  | 11 |             |
| Mesure intensité I0            |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| I0 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure intensité I1            |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| I1 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure intensité I2            |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| I2 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure intensité I3            |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| I3 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Tension U0              |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| U0 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Tension U1              |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| U1 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Tension U2              |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| U2 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Tension U3              |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| U3 Maximum                     |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Fréquence               |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| Mesure cos phi                 |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| Mesure puissance Active PA     |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| Max PA                         |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure puissance réactive      |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |
| Max PR                         |     |        |       |      |      |      |      |    |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure puissance apparante PAP |     |        | RS485 |      |      |      |      |    |      |       |    | 1   |    |    |             |

[illegible]

| CENTRALE DE MESURE Protection Climatisation Groupe 2 Bâtiment (secoirs) |     |       |       | LIASON |       | API  |      |    |      | SCADA API |    |    |    |    |             |  |  |
|-------------------------------------------------------------------------|-----|-------|-------|--------|-------|------|------|----|------|-----------|----|----|----|----|-------------|--|--|
| Libellé                                                                 | TAG | LIARE | COM   | ETOR   | ENANA | STOR | SANA | FA | NFNO | Appel     | TS | TM | TC | FR | Commentaire |  |  |
| CENTRALE DE MESURE                                                      |     | 0     | 1     | 1      | 0     | 0    | 0    | 0  | 0    | 0         | 0  | 27 | 0  | 11 |             |  |  |
| Mesure intensité I0                                                     |     |       | RS485 |        |       |      |      |    |      |           |    | 1  |    | 1  | RAZ Max     |  |  |
| I0 Maximum                                                              |     |       |       |        |       |      |      |    |      |           |    | 1  |    |    |             |  |  |
| Mesure intensité I1                                                     |     |       | RS485 |        |       |      |      |    |      |           |    | 1  |    | 1  | RAZ Max     |  |  |
| I1 Maximum                                                              |     |       |       |        |       |      |      |    |      |           |    | 1  |    |    |             |  |  |
| Mesure intensité I2                                                     |     |       | RS485 |        |       |      |      |    |      |           |    | 1  |    |    |             |  |  |
| I2 Maximum                                                              |     |       |       |        |       |      |      |    |      |           |    | 1  |    | 1  | RAZ Max     |  |  |
| Mesure intensité I3                                                     |     |       | RS485 |        |       |      |      |    |      |           |    | 1  |    |    |             |  |  |
| I3 Maximum                                                              |     |       |       |        |       |      |      |    |      |           |    | 1  |    | 1  | RAZ Max     |  |  |
| Mesure Tension U0                                                       |     |       | RS485 |        |       |      |      |    |      |           |    | 1  |    |    |             |  |  |
| U0 Maximum                                                              |     |       |       |        |       |      |      |    |      |           |    | 1  |    | 1  | RAZ Max     |  |  |
| Mesure Tension U1                                                       |     |       | RS485 |        |       |      |      |    |      |           |    | 1  |    |    |             |  |  |
| U1 Maximum                                                              |     |       |       |        |       |      |      |    |      |           |    | 1  |    | 1  | RAZ Max     |  |  |
| Mesure Tension U2                                                       |     |       | RS485 |        |       |      |      |    |      |           |    | 1  |    |    |             |  |  |
| U2 Maximum                                                              |     |       |       |        |       |      |      |    |      |           |    | 1  |    | 1  | RAZ Max     |  |  |
| Mesure Tension U3                                                       |     |       | RS485 |        |       |      |      |    |      |           |    | 1  |    |    |             |  |  |
| U3 Maximum                                                              |     |       |       |        |       |      |      |    |      |           |    | 1  |    | 1  | RAZ Max     |  |  |
| Mesure Fréquence                                                        |     |       | RS485 |        |       |      |      |    |      |           |    | 1  |    |    |             |  |  |
| Mesure cos phi                                                          |     |       | RS485 |        |       |      |      |    |      |           |    | 1  |    |    |             |  |  |
| Mesure puissance Active PA                                              |     |       | RS485 |        |       |      |      |    |      |           |    | 1  |    |    |             |  |  |
| Max PA                                                                  |     |       |       |        |       |      |      |    |      |           |    | 1  |    | 1  | RAZ Max     |  |  |
| Mesure puissance réactive                                               |     |       | RS485 |        |       |      |      |    |      |           |    | 1  |    |    |             |  |  |
| Max PR                                                                  |     |       |       |        |       |      |      |    |      |           |    | 1  |    | 1  | RAZ Max     |  |  |
| Mesure puissance apparante PAP                                          |     |       | RS485 |        |       |      |      |    |      |           |    | 1  |    |    |             |  |  |
| Max PAP                                                                 |     |       |       |        |       |      |      |    |      |           |    | 1  |    | 1  | RAZ Max     |  |  |
| Mesure Energie active                                                   |     |       | RS485 |        |       |      |      |    |      |           |    | 1  |    |    |             |  |  |
| Mesure Energie Réactive                                                 |     |       | RS485 |        |       |      |      |    |      |           |    | 1  |    |    |             |  |  |
| Mesure Energie apparante                                                |     |       | RS485 |        |       |      |      |    |      |           |    | 1  |    |    |             |  |  |

| CENTRALE DE MESURE Protection Climatization Groupe 1 Régulation |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |             |
|-----------------------------------------------------------------|-----|--------|-------|------|------|------|------|-----------|------|-------|----|----|----|----|-------------|
| Libellé                                                         | TAG | liaire | COM   | ETOR | EANA | STOR | SANA | TA        | NFNO | Appel | TS | TM | TC | TR | Commentaire |
| <b>CENTRALE DE MESURE</b>                                       |     | 0      | 1     | 1    | 0    | 0    | 0    | 0         | 0    | 0     | 0  | 27 | 0  | 11 |             |
| Mesure intensité I0                                             |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I0 Maximum                                                      |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I1                                             |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I1 Maximum                                                      |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I2                                             |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I2 Maximum                                                      |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I3                                             |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I3 Maximum                                                      |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U0                                               |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U0 Maximum                                                      |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U1                                               |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U1 Maximum                                                      |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U2                                               |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U2 Maximum                                                      |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U3                                               |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U3 Maximum                                                      |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Fréquence                                                |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure cos phi                                                  |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure puissance Active PA                                      |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PA                                                          |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance réactive                                       |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PR                                                          |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance apparante PAP                                  |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PAP                                                         |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Energie active                                           |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie Réactive                                         |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie apparante                                        |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |

| CENTRALE DE MESURE Protection Climatisation Groupe 2 Régulation (secours) |     |  | LIASON |       | API  |      |      |      | SCADA API |      |      |    |    |    |    |             |
|---------------------------------------------------------------------------|-----|--|--------|-------|------|------|------|------|-----------|------|------|----|----|----|----|-------------|
| Libellé                                                                   | TAG |  | Blanc  | COM   | ETOR | EANA | STOR | SANA | TA        | NFNO | Apel | TS | TM | TC | TR | Commentaire |
| CENTRALE DE MESURE                                                        |     |  | 0      | 1     | 1    | 0    | 0    | 0    | 0         | 0    | 0    | 0  | 27 | 0  | 11 |             |
| Mesure intensité I0                                                       |     |  |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| I0 Maximum                                                                |     |  |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I1                                                       |     |  |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| I1 Maximum                                                                |     |  |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I2                                                       |     |  |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| I2 Maximum                                                                |     |  |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I3                                                       |     |  |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| I3 Maximum                                                                |     |  |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U0                                                         |     |  |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| U0 Maximum                                                                |     |  |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U1                                                         |     |  |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| U1 Maximum                                                                |     |  |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U2                                                         |     |  |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| U2 Maximum                                                                |     |  |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U3                                                         |     |  |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| U3 Maximum                                                                |     |  |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure Fréquence                                                          |     |  |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| Mesure cos phi                                                            |     |  |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| Mesure puissance Active PA                                                |     |  |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| Max PA                                                                    |     |  |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance réactive                                                 |     |  |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| Max PR                                                                    |     |  |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance apparante PAP                                            |     |  |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| Max PAP                                                                   |     |  |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure Energie active                                                     |     |  |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| Mesure Energie Réactive                                                   |     |  |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| Mesure Energie apparence                                                  |     |  |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |

| CENTRALE DE MESURE Protection Extracteur de désenfumage Grand garage |     |       |       | LIASON |      | API  |      |    |      | SCADA API |    |    |    |    |             |  |
|----------------------------------------------------------------------|-----|-------|-------|--------|------|------|------|----|------|-----------|----|----|----|----|-------------|--|
| Libellé                                                              | TAG | Haute | DOM   | ETOR   | EANA | STOR | SANA | TA | NFNO | Appel     | TS | TM | TC | TR | Commentaire |  |
| CENTRALE DE MESURE                                                   |     | 0     | 1     | 1      | 0    | 0    | 0    | 0  | 0    | 0         | 0  | 27 | 0  | 11 |             |  |
| Mesure intensité I0                                                  |     |       | RS485 |        |      |      |      |    |      |           |    | 1  |    |    |             |  |
| I0 Maximum                                                           |     |       |       |        |      |      |      |    |      |           |    | 1  |    | 1  | RAZ Max     |  |
| Mesure intensité I1                                                  |     |       | RS485 |        |      |      |      |    |      |           |    | 1  |    |    |             |  |
| I1 Maximum                                                           |     |       |       |        |      |      |      |    |      |           |    | 1  |    | 1  | RAZ Max     |  |
| Mesure intensité I2                                                  |     |       | RS485 |        |      |      |      |    |      |           |    | 1  |    |    |             |  |
| I2 Maximum                                                           |     |       |       |        |      |      |      |    |      |           |    | 1  |    | 1  | RAZ Max     |  |
| Mesure intensité I3                                                  |     |       | RS485 |        |      |      |      |    |      |           |    | 1  |    |    |             |  |
| I3 Maximum                                                           |     |       |       |        |      |      |      |    |      |           |    | 1  |    | 1  | RAZ Max     |  |
| Mesure Tension U0                                                    |     |       | RS485 |        |      |      |      |    |      |           |    | 1  |    |    |             |  |
| U0 Maximum                                                           |     |       |       |        |      |      |      |    |      |           |    | 1  |    | 1  | RAZ Max     |  |
| Mesure Tension U1                                                    |     |       | RS485 |        |      |      |      |    |      |           |    | 1  |    |    |             |  |
| U1 Maximum                                                           |     |       |       |        |      |      |      |    |      |           |    | 1  |    | 1  | RAZ Max     |  |
| Mesure Tension U2                                                    |     |       | RS485 |        |      |      |      |    |      |           |    | 1  |    |    |             |  |
| U2 Maximum                                                           |     |       |       |        |      |      |      |    |      |           |    | 1  |    | 1  | RAZ Max     |  |
| Mesure Tension U3                                                    |     |       | RS485 |        |      |      |      |    |      |           |    | 1  |    |    |             |  |
| U3 Maximum                                                           |     |       |       |        |      |      |      |    |      |           |    | 1  |    | 1  | RAZ Max     |  |
| Mesure Fréquence                                                     |     |       | RS485 |        |      |      |      |    |      |           |    | 1  |    |    |             |  |

[illegible]

| CENTRALE DE MESURE Protection Extracteur de désenfumage Petit garage |     | LIASON   |          | API      |          |          |          | SCADA API |          |          |          |           |          |           |             |
|----------------------------------------------------------------------|-----|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|-----------|----------|-----------|-------------|
| Libellé                                                              | TAG | Haute    | COM      | ETOR     | EANA     | STOR     | SANA     | TA        | NFNO     | Appl     | TS       | TM        | TC       | TR        | Commentaire |
| <b>CENTRALE DE MESURE</b>                                            |     | <b>0</b> | <b>1</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>  | <b>0</b> | <b>0</b> | <b>0</b> | <b>27</b> | <b>0</b> | <b>11</b> |             |
| Mesure intensité I0                                                  |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I0 Maximum                                                           |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I1                                                  |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I1 Maximum                                                           |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I2                                                  |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I2 Maximum                                                           |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I3                                                  |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I3 Maximum                                                           |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U0                                                    |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U0 Maximum                                                           |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U1                                                    |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U1 Maximum                                                           |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U2                                                    |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U2 Maximum                                                           |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U3                                                    |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U3 Maximum                                                           |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Fréquence                                                     |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure cos phi                                                       |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure puissance Active PA                                           |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PA                                                               |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure puissance réactive                                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PR                                                               |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure puissance apparante PAP                                       |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PAP                                                              |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Energie active                                                |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure Energie Réactive                                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure Energie apparence                                             |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |

| CENTRALE DE MESURE Réserve tiroir calibre 100/160/250 |     | LIASON   |          | API      |          |          |          | SCADA API |          |          |          |           |          |           |             |
|-------------------------------------------------------|-----|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|-----------|----------|-----------|-------------|
| Libellé                                               | TAG | Raire    | COM      | ETOR     | EANA     | STOR     | SANA     | TA        | NFNG     | Appel    | TS       | TM        | TC       | TR        | Commentaire |
| <b>CENTRALE DE MESURE</b>                             |     | <b>0</b> | <b>1</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>  | <b>0</b> | <b>0</b> | <b>0</b> | <b>27</b> | <b>0</b> | <b>11</b> |             |
| Mesure intensité I0                                   |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I0 Maximum                                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I1                                   |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I1 Maximum                                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I2                                   |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I2 Maximum                                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I3                                   |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I3 Maximum                                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U0                                     |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U0 Maximum                                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U1                                     |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U1 Maximum                                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U2                                     |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U2 Maximum                                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U3                                     |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U3 Maximum                                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Fréquence                                      |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure cos phi                                        |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure puissance Active PA                            |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PA                                                |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure puissance réactive                             |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PR                                                |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure puissance apparante PAP                        |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PAP                                               |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Energie active                                 |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure Energie Réactive                               |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure Energie apparente                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |

| CENTRALE DE MESURE Réserve tiroir calibre 100/160/250 |     |        | LIASON |      | API  |      |      |    | SCADA API |       |    |    |    |    |             |  |
|-------------------------------------------------------|-----|--------|--------|------|------|------|------|----|-----------|-------|----|----|----|----|-------------|--|
| Libellé                                               | TAG | liaire | QOM    | ETOR | SAVA | STOR | SAVA | TA | WIND      | Appel | TS | TM | TC | TR | Commentaire |  |
| CENTRALE DE MESURE                                    |     | 0      | 1      | 1    | 0    | 0    | 0    | 0  | 0         | 0     | 0  | 27 | 0  | 11 |             |  |
| Mesure intensité I0                                   |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |  |
| I0 Maximum                                            |     |        |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |  |
| Mesure intensité I1                                   |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |  |
| I1 Maximum                                            |     |        |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |  |
| Mesure intensité I2                                   |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |  |
| I2 Maximum                                            |     |        |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |  |
| Mesure intensité I3                                   |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |  |
| I3 Maximum                                            |     |        |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |  |
| Mesure Tension U0                                     |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |  |
| U0 Maximum                                            |     |        |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |  |
| Mesure Tension U1                                     |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |  |
| U1 Maximum                                            |     |        |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |  |
| Mesure Tension U2                                     |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |  |
| U2 Maximum                                            |     |        |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |  |
| Mesure Tension U3                                     |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |  |
| U3 Maximum                                            |     |        |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |  |
| Mesure Fréquence                                      |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |  |
| Mesure cos phi                                        |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |  |
| Mesure puissance Active PA                            |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |  |
| Max PA                                                |     |        |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |  |
| Mesure puissance réactive                             |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |  |
| Max PR                                                |     |        |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |  |
| Mesure puissance apparante PAP                        |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |  |
| Max PAP                                               |     |        |        |      |      |      |      |    |           |       |    | 1  |    | 1  | RAZ Max     |  |
| Mesure Energie active                                 |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |  |
| Mesure Energie Réactive                               |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |  |
| Mesure Energie apparence                              |     |        | RS485  |      |      |      |      |    |           |       |    | 1  |    |    |             |  |

| CENTRALE DE MESURE Réserve tiroir calibre 100/160/250 |     | LIASON |       | API  |       |      |       | SCADA API |      |       |    |    |    |    |             |
|-------------------------------------------------------|-----|--------|-------|------|-------|------|-------|-----------|------|-------|----|----|----|----|-------------|
| Libellé                                               | TAG | Rare   | SCM   | ETOR | ENANA | ETOR | ENANA | TA        | MFNG | Appli | TS | TM | TC | TR | Commentaire |
| <b>CENTRALE DE MESURE</b>                             |     | 0      | 1     | 1    | 0     | 0    | 0     | 0         | 0    | 0     | 0  | 27 | 0  | 11 |             |
| Mesure intensité I0                                   |     |        | RS485 |      |       |      |       |           |      |       |    | 1  |    |    |             |
| I0 Maximum                                            |     |        |       |      |       |      |       |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I1                                   |     |        | RS485 |      |       |      |       |           |      |       |    | 1  |    |    |             |
| I1 Maximum                                            |     |        |       |      |       |      |       |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I2                                   |     |        | RS485 |      |       |      |       |           |      |       |    | 1  |    |    |             |
| I2 Maximum                                            |     |        |       |      |       |      |       |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I3                                   |     |        | RS485 |      |       |      |       |           |      |       |    | 1  |    |    |             |
| I3 Maximum                                            |     |        |       |      |       |      |       |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U0                                     |     |        | RS485 |      |       |      |       |           |      |       |    | 1  |    |    |             |
| U0 Maximum                                            |     |        |       |      |       |      |       |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension I11                                    |     |        | RS485 |      |       |      |       |           |      |       |    | 1  |    |    |             |

[illegible]

| CENTRALE DE MESURE Réserve tiroir calibre 100/160/250 |     | LIASON |       | API  |      |      |      | SCADA API |       |       |    |    |    |    |             |
|-------------------------------------------------------|-----|--------|-------|------|------|------|------|-----------|-------|-------|----|----|----|----|-------------|
| Libellé                                               | TAG | Haute  | COM   | ETOR | EANA | STOR | SANA | TA        | WF/NO | Appli | TS | TM | TC | TR | Commentaire |
| <b>CENTRALE DE MESURE</b>                             |     | 0      | 1     | 1    | 0    | 0    | 0    | 0         | 0     | 0     | 0  | 27 | 0  | 11 |             |
| Mesure intensité I0                                   |     |        | RS485 |      |      |      |      |           |       |       |    | 1  |    |    |             |
| I0 Maximum                                            |     |        |       |      |      |      |      |           |       |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I1                                   |     |        | RS485 |      |      |      |      |           |       |       |    | 1  |    |    |             |
| I1 Maximum                                            |     |        |       |      |      |      |      |           |       |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I2                                   |     |        | RS485 |      |      |      |      |           |       |       |    | 1  |    |    |             |
| I2 Maximum                                            |     |        |       |      |      |      |      |           |       |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I3                                   |     |        | RS485 |      |      |      |      |           |       |       |    | 1  |    |    |             |
| I3 Maximum                                            |     |        |       |      |      |      |      |           |       |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U0                                     |     |        | RS485 |      |      |      |      |           |       |       |    | 1  |    |    |             |
| U0 Maximum                                            |     |        |       |      |      |      |      |           |       |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U1                                     |     |        | RS485 |      |      |      |      |           |       |       |    | 1  |    |    |             |
| U1 Maximum                                            |     |        |       |      |      |      |      |           |       |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U2                                     |     |        | RS485 |      |      |      |      |           |       |       |    | 1  |    |    |             |
| U2 Maximum                                            |     |        |       |      |      |      |      |           |       |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U3                                     |     |        | RS485 |      |      |      |      |           |       |       |    | 1  |    |    |             |
| U3 Maximum                                            |     |        |       |      |      |      |      |           |       |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Fréquence                                      |     |        | RS485 |      |      |      |      |           |       |       |    | 1  |    |    |             |
| Mesure cos phi                                        |     |        | RS485 |      |      |      |      |           |       |       |    | 1  |    |    |             |
| Mesure puissance Active PA                            |     |        | RS485 |      |      |      |      |           |       |       |    | 1  |    |    |             |
| Max PA                                                |     |        |       |      |      |      |      |           |       |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance réactive                             |     |        | RS485 |      |      |      |      |           |       |       |    | 1  |    |    |             |
| Max PR                                                |     |        |       |      |      |      |      |           |       |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance apparante PAP                        |     |        | RS485 |      |      |      |      |           |       |       |    | 1  |    |    |             |
| Max PAP                                               |     |        |       |      |      |      |      |           |       |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Energie active                                 |     |        | RS485 |      |      |      |      |           |       |       |    | 1  |    |    |             |
| Mesure Energie Réactive                               |     |        | RS485 |      |      |      |      |           |       |       |    | 1  |    |    |             |
| Mesure Energie apparence                              |     |        | RS485 |      |      |      |      |           |       |       |    | 1  |    |    |             |

| CENTRALE DE MESURE Réserve tirol calibre 400/630 |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |             |
|--------------------------------------------------|-----|--------|-------|------|------|------|------|-----------|------|-------|----|----|----|----|-------------|
| Libellé                                          | TAG | Idare  | COM   | ETOR | EANA | STOR | SANA | TA        | VFNG | Aguel | TS | TM | TC | TR | Commentaire |
| <b>CENTRALE DE MESURE</b>                        |     | 0      | 1     | 1    | 0    | 0    | 0    | 0         | 0    | 0     | 0  | 27 | 0  | 11 |             |
| Mesure intensité I0                              |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I0 Maximum                                       |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I1                              |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I1 Maximum                                       |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I2                              |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I2 Maximum                                       |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I3                              |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I3 Maximum                                       |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U0                                |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U0 Maximum                                       |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U1                                |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U1 Maximum                                       |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U2                                |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U2 Maximum                                       |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U3                                |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U3 Maximum                                       |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Fréquence                                 |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure cos phi                                   |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure puissance Active PA                       |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PA                                           |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance réactive                        |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PR                                           |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance apparante PAP                   |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PAP                                          |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Energie active                            |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie Réactive                          |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie apparence                         |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |

| CENTRALE DE MESURE Reserve tiroir calibre 400/630 |     | LIASON  |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |             |
|---------------------------------------------------|-----|---------|-------|------|------|------|------|-----------|------|-------|----|----|----|----|-------------|
| Libellé                                           | TAG | liaison | COM   | ETOR | EANA | STOR | SANA | TA        | VFNO | Appel | TS | TM | TC | TR | Commentaire |
| <b>CENTRALE DE MESURE</b>                         |     | 0       | 1     | 1    | 0    | 0    | 0    | 0         | 0    | 0     | 0  | 27 | 0  | 11 |             |
| Mesure intensité I0                               |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I0 Maximum                                        |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I1                               |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I1 Maximum                                        |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I2                               |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I2 Maximum                                        |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I3                               |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I3 Maximum                                        |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U0                                 |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U0 Maximum                                        |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U1                                 |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U1 Maximum                                        |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U2                                 |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U2 Maximum                                        |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U3                                 |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U3 Maximum                                        |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Fréquence                                  |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure cos phi                                    |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure puissance Active PA                        |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PA                                            |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance réactive                         |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PR                                            |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance apparante PAP                    |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PAP                                           |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Energie active                             |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie Réactive                           |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie apparence                          |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |

| CENTRALE DE MESURE Tableau TDHQ01-C attache 1 |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |             |
|-----------------------------------------------|-----|--------|-------|------|------|------|------|-----------|------|-------|----|----|----|----|-------------|
| Libellé                                       | TAG | liaire | COM   | ETOR | IANA | BTOR | IANA | TA        | TAFO | Appel | TS | TM | TC | TR | Commentaire |
| <b>CENTRALE DE MESURE</b>                     |     | 0      | 1     | 1    | 0    | 0    | 0    | 0         | 0    | 0     | 0  | 27 | 0  | 11 |             |
| Mesure intensité I0                           |     |        | RS485 |      |      |      |      |           |      |       |    |    |    |    |             |
| I0 Maximum                                    |     |        |       |      |      |      |      |           |      |       |    | 1  |    |    | RAZ Max     |
| Mesure intensité I1                           |     |        | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| I1 Maximum                                    |     |        |       |      |      |      |      |           |      |       |    | 1  |    |    | RAZ Max     |
| Mesure intensité I2                           |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |

[illegible]

| CENTRALE DE MESURE Tableau TDHQ01-C attache 2 |     | LIASON   |          | API      |          |          |          | SCADA API |          |          |          |           |          |           |             |
|-----------------------------------------------|-----|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|-----------|----------|-----------|-------------|
| Libellé                                       | TAG | Rece     | COM      | ETOR     | EANA     | STOR     | SANA     | TA        | NFNO     | Appel    | TS       | TM        | TC       | TR        | Commentaire |
| <b>CENTRALE DE MESURE</b>                     |     | <b>0</b> | <b>1</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b>  | <b>0</b> | <b>0</b> | <b>0</b> | <b>27</b> | <b>0</b> | <b>11</b> |             |
| Mesure intensité I0                           |     |          | RS485    |          |          |          |          |           |          |          |          |           |          |           |             |
| I0 Maximum                                    |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I1                           |     |          | RS485    |          |          |          |          |           |          |          |          |           |          |           |             |
| I1 Maximum                                    |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure intensité I2                           |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I2 Maximum                                    |     |          |          |          |          |          |          |           |          |          |          |           | 1        | 1         | RAZ Max     |
| Mesure intensité I3                           |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| I3 Maximum                                    |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U0                             |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U0 Maximum                                    |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U1                             |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U1 Maximum                                    |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U2                             |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U2 Maximum                                    |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Tension U3                             |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| U3 Maximum                                    |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Fréquence                              |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure cos phi                                |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure puissance Active PA                    |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PA                                        |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure puissance réactive                     |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PR                                        |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure puissance apparante PAP                |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Max PAP                                       |     |          |          |          |          |          |          |           |          |          |          | 1         |          | 1         | RAZ Max     |
| Mesure Energie active                         |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure Energie Réactive                       |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |
| Mesure Energie apparente                      |     |          | RS485    |          |          |          |          |           |          |          |          | 1         |          |           |             |

| CENTRALE DE MESURE Tableau TDHQ01-Local VDI 1/2 |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |             |
|-------------------------------------------------|-----|--------|-------|------|------|------|------|-----------|------|-------|----|----|----|----|-------------|
| Libellé                                         | TAG | Haute  | COM   | ETOR | EANA | STOR | SANA | TA        | NFNO | Appel | TS | MI | TC | FR | Commentaire |
| <b>CENTRALE DE MESURE</b>                       |     |        |       |      |      |      |      |           |      |       |    |    |    |    |             |
| Mesure intensité I0                             |     | 0      | 1     | 1    | 0    | 0    | 0    | 0         | 0    | 0     | 0  | 27 | 0  | 11 |             |
| I0 Maximum                                      |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I1                             |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I1 Maximum                                      |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I2                             |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I2 Maximum                                      |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I3                             |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I3 Maximum                                      |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U0                               |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U0 Maximum                                      |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U1                               |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U1 Maximum                                      |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U2                               |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U2 Maximum                                      |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U3                               |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U3 Maximum                                      |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Fréquence                                |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure cos phi                                  |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure puissance Active PA                      |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PA                                          |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance réactive                       |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PR                                          |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance apparante PAP                  |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PAP                                         |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Energie active                           |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie Réactive                         |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie apparante                        |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |

| CENTRALE DE MESURE Tableau TDHQ01-Local VDI 2/2 |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |             |
|-------------------------------------------------|-----|--------|-------|------|------|------|------|-----------|------|-------|----|----|----|----|-------------|
| Libellé                                         | TAG | Rece   | COM   | ETOR | EANA | STOR | SANA | TA        | MFNO | Appel | TS | TM | TC | TR | Commentaire |
| <b>CENTRALE DE MESURE</b>                       |     |        |       |      |      |      |      |           |      |       |    |    |    |    |             |
| Mesure intensité I0                             |     | 0      | 1     | 1    | 0    | 0    | 0    | 0         | 0    | 0     | 0  | 27 | 0  | 11 |             |
| I0 Maximum                                      |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I1                             |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I1 Maximum                                      |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I2                             |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I2 Maximum                                      |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I3                             |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I3 Maximum                                      |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U0                               |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U0 Maximum                                      |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U1                               |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U1 Maximum                                      |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U2                               |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U2 Maximum                                      |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U3                               |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U3 Maximum                                      |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Fréquence                                |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure cos phi                                  |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure puissance Active PA                      |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PA                                          |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance réactive                       |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PR                                          |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance apparante PAP                  |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PAP                                         |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Energie active                           |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie Réactive                         |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie apparente                        |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |

| CENTRALE DE MESURE Tableau TDHQ02-A attache 1 |     |         |     | LIASON |      | API    |      | SCADA API |        |       |   |   |   |   |             |
|-----------------------------------------------|-----|---------|-----|--------|------|--------|------|-----------|--------|-------|---|---|---|---|-------------|
| Libellé                                       | TAG | Libellé | DOM | ACTEUR | SANA | ACTEUR | SANA | A         | REF/NO | appel | S | M | C | R | Commentaire |

| CENTRALE DE MESURE             |  | 0 | 1     | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 0 | 11      |
|--------------------------------|--|---|-------|---|---|---|---|---|---|---|---|---|---|----|---|---------|
| Mesure intensité I0            |  |   | RS485 |   |   |   |   |   |   |   |   |   |   | 1  |   |         |
| I0 Maximum                     |  |   |       |   |   |   |   |   |   |   |   |   |   | 1  | 1 | RAZ Max |
| Mesure intensité I1            |  |   | RS485 |   |   |   |   |   |   |   |   |   |   | 1  |   |         |
| I1 Maximum                     |  |   |       |   |   |   |   |   |   |   |   |   |   | 1  | 1 | RAZ Max |
| Mesure intensité I2            |  |   | RS485 |   |   |   |   |   |   |   |   |   |   | 1  |   |         |
| I2 Maximum                     |  |   |       |   |   |   |   |   |   |   |   |   |   | 1  | 1 | RAZ Max |
| Mesure intensité I3            |  |   | RS485 |   |   |   |   |   |   |   |   |   |   | 1  |   |         |
| I3 Maximum                     |  |   |       |   |   |   |   |   |   |   |   |   |   | 1  | 1 | RAZ Max |
| Mesure Tension U0              |  |   | RS485 |   |   |   |   |   |   |   |   |   |   | 1  |   |         |
| U0 Maximum                     |  |   |       |   |   |   |   |   |   |   |   |   |   | 1  | 1 | RAZ Max |
| Mesure Tension U1              |  |   | RS485 |   |   |   |   |   |   |   |   |   |   | 1  |   |         |
| U1 Maximum                     |  |   |       |   |   |   |   |   |   |   |   |   |   | 1  | 1 | RAZ Max |
| Mesure Tension U2              |  |   | RS485 |   |   |   |   |   |   |   |   |   |   | 1  |   |         |
| U2 Maximum                     |  |   |       |   |   |   |   |   |   |   |   |   |   | 1  | 1 | RAZ Max |
| Mesure Tension U3              |  |   | RS485 |   |   |   |   |   |   |   |   |   |   | 1  |   |         |
| U3 Maximum                     |  |   |       |   |   |   |   |   |   |   |   |   |   | 1  | 1 | RAZ Max |
| Mesure Fréquence               |  |   | RS485 |   |   |   |   |   |   |   |   |   |   | 1  |   |         |
| Mesure cos phi                 |  |   | RS485 |   |   |   |   |   |   |   |   |   |   | 1  |   |         |
| Mesure puissance Active PA     |  |   | RS485 |   |   |   |   |   |   |   |   |   |   | 1  |   |         |
| Max PA                         |  |   |       |   |   |   |   |   |   |   |   |   |   | 1  | 1 | RAZ Max |
| Mesure puissance réactive      |  |   | RS485 |   |   |   |   |   |   |   |   |   |   | 1  |   |         |
| Max PR                         |  |   |       |   |   |   |   |   |   |   |   |   |   | 1  | 1 | RAZ Max |
| Mesure puissance apparante PAP |  |   | RS485 |   |   |   |   |   |   |   |   |   |   | 1  |   |         |
| Max PAP                        |  |   |       |   |   |   |   |   |   |   |   |   |   | 1  | 1 | RAZ Max |
| Mesure Energie active          |  |   | RS485 |   |   |   |   |   |   |   |   |   |   | 1  |   |         |
| Mesure Energie Réactive        |  |   | RS485 |   |   |   |   |   |   |   |   |   |   | 1  |   |         |
| Mesure Energie apparente       |  |   | RS485 |   |   |   |   |   |   |   |   |   |   | 1  |   |         |

| CENTRALE DE MESURE Tableau TDHQ02-A attache 2 |     | LIASON  |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |             |
|-----------------------------------------------|-----|---------|-------|------|------|------|------|-----------|------|-------|----|----|----|----|-------------|
| Libellé                                       | TAG | liaison | COM   | ETOR | EANA | STOR | SANA | TA        | NFNO | Appel | TS | TM | TC | TR | Commentaire |
| <b>CENTRALE DE MESURE</b>                     |     | 0       | 1     | 1    | 0    | 0    | 0    | 0         | 0    | 0     | 0  | 0  | 27 | 0  | 11          |
| Mesure intensité I0                           |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| I0 Maximum                                    |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure intensité I1                           |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| I1 Maximum                                    |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure intensité I2                           |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| I2 Maximum                                    |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure intensité I3                           |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| I3 Maximum                                    |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure Tension U0                             |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| U0 Maximum                                    |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure Tension U1                             |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| U1 Maximum                                    |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure Tension U2                             |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| U2 Maximum                                    |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure Tension U3                             |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| U3 Maximum                                    |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure Fréquence                              |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| Mesure cos phi                                |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| Mesure puissance Active PA                    |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| Max PA                                        |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure puissance réactive                     |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| Max PR                                        |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure puissance apparante PAP                |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| Max PAP                                       |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure Energie active                         |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| Mesure Energie Réactive                       |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| Mesure Energie apparente                      |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |

| CENTRALE DE MESURE Tableau TDHQ02-LT2 1/2 |     | LIASON  |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |             |
|-------------------------------------------|-----|---------|-------|------|------|------|------|-----------|------|-------|----|----|----|----|-------------|
| Libellé                                   | TAG | liaison | COM   | ETOR | EANA | STOR | SANA | TA        | NFNO | Appel | TS | TM | TC | TR | Commentaire |
| <b>CENTRALE DE MESURE</b>                 |     | 0       | 1     | 1    | 0    | 0    | 0    | 0         | 0    | 0     | 0  | 0  | 27 | 0  | 11          |
| Mesure intensité I0                       |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| I0 Maximum                                |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure intensité I1                       |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| I1 Maximum                                |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure intensité I2                       |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| I2 Maximum                                |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure intensité I3                       |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| I3 Maximum                                |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure Tension U0                         |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| U0 Maximum                                |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure Tension U1                         |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| U1 Maximum                                |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure Tension U2                         |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| U2 Maximum                                |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure Tension U3                         |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| U3 Maximum                                |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure Fréquence                          |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| Mesure cos phi                            |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| Mesure puissance Active PA                |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| Max PA                                    |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure puissance réactive                 |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| Max PR                                    |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure puissance apparante PAP            |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| Max PAP                                   |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure Energie active                     |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| Mesure Energie Réactive                   |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| Mesure Energie apparente                  |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |

| CENTRALE DE MESURE Tableau TDHQ02-LT2 2/2 |     | LIASON  |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |             |
|-------------------------------------------|-----|---------|-------|------|------|------|------|-----------|------|-------|----|----|----|----|-------------|
| Libellé                                   | TAG | liaison | COM   | ETOR | EANA | STOR | SANA | TA        | NFNO | Appel | TS | TM | TC | TR | Commentaire |
| <b>CENTRALE DE MESURE</b>                 |     | 0       | 1     | 1    | 0    | 0    | 0    | 0         | 0    | 0     | 0  | 0  | 27 | 0  | 11          |
| Mesure intensité I0                       |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| I0 Maximum                                |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure intensité I1                       |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| I1 Maximum                                |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure intensité I2                       |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| I2 Maximum                                |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure intensité I3                       |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| I3 Maximum                                |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure Tension U0                         |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| U0 Maximum                                |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure Tension U1                         |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| U1 Maximum                                |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure Tension U2                         |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| U2 Maximum                                |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure Tension U3                         |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| U3 Maximum                                |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure Fréquence                          |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| Mesure cos phi                            |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| Mesure puissance Active PA                |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| Max PA                                    |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure puissance réactive                 |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| Max PR                                    |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure puissance apparante PAP            |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |
| Max PAP                                   |     |         |       |      |      |      |      |           |      |       |    |    | 1  | 1  | RAZ Max     |
| Mesure Energie active                     |     |         | RS485 |      |      |      |      |           |      |       |    |    | 1  |    |             |

|                          |  |  |       |  |  |  |  |  |  |  |   |  |  |  |
|--------------------------|--|--|-------|--|--|--|--|--|--|--|---|--|--|--|
| Mesure Energie Réactive  |  |  | RS485 |  |  |  |  |  |  |  | 1 |  |  |  |
| Mesure Energie apparente |  |  | RS485 |  |  |  |  |  |  |  | 1 |  |  |  |

| CENTRALE DE MESURE Tableau TDHQ02-C attache 1 |     | LIASON |       | API  |      |      |      | SCADA API |      |      |    |    |    |    |             |
|-----------------------------------------------|-----|--------|-------|------|------|------|------|-----------|------|------|----|----|----|----|-------------|
| Libellé                                       | TAG | libre  | COM   | ETOR | EANA | STOR | SANA | TA        | NFNO | Apel | TS | TM | TC | TR | Commentaire |
| <b>CENTRALE DE MESURE</b>                     |     | 0      | 1     | 1    | 0    | 0    | 0    | 0         | 0    | 0    | 0  | 27 | 0  | 11 |             |
| Mesure intensité I0                           |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| I0 Maximum                                    |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I1                           |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| I1 Maximum                                    |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I2                           |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| I2 Maximum                                    |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I3                           |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| I3 Maximum                                    |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U0                             |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| U0 Maximum                                    |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U1                             |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| U1 Maximum                                    |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U2                             |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| U2 Maximum                                    |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U3                             |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| U3 Maximum                                    |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure Fréquence                              |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| Mesure cos phi                                |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| Mesure puissance Active PA                    |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| Max PA                                        |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance réactive                     |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| Max PR                                        |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance apparante PAP                |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| Max PAP                                       |     |        |       |      |      |      |      |           |      |      |    | 1  |    | 1  | RAZ Max     |
| Mesure Energie active                         |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| Mesure Energie Réactive                       |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |
| Mesure Energie apparence                      |     |        | RS485 |      |      |      |      |           |      |      |    | 1  |    |    |             |

| CENTRALE DE MESURE Tableau TDHQ02-C attache 2 |     | LIASON  |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |             |
|-----------------------------------------------|-----|---------|-------|------|------|------|------|-----------|------|-------|----|----|----|----|-------------|
| Libellé                                       | TAG | Adresse | COM   | ETOR | ENVA | STOR | SANA | TA        | NFNO | Appel | TS | TM | TC | TR | Commentaire |
| <b>CENTRALE DE MESURE</b>                     |     |         |       |      |      |      |      |           |      |       |    |    |    |    |             |
| Mesure intensité I0                           |     |         | RS485 | 1    | 0    | 0    | 0    | 0         | 0    | 0     | 0  | 27 | 0  | 11 |             |
| I0 Maximum                                    |     |         |       |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure intensité I1                           |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I1 Maximum                                    |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I2                           |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I2 Maximum                                    |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I3                           |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I3 Maximum                                    |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U0                             |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U0 Maximum                                    |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U1                             |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U1 Maximum                                    |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U2                             |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U2 Maximum                                    |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U3                             |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U3 Maximum                                    |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Fréquence                              |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure cos phi                                |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure puissance Active PA                    |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PA                                        |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance réactive                     |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PR                                        |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance apparante PAP                |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PAP                                       |     |         |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Energie active                         |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie Réactive                       |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie apparente                      |     |         | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |

| CENTRALE DE MESURE Tableau TDHQ02-LT1 1/2 |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |             |
|-------------------------------------------|-----|--------|-------|------|------|------|------|-----------|------|-------|----|----|----|----|-------------|
| Libellé                                   | TAG | Reire  | COM   | ETOR | EANA | STOR | SANA | TA        | NFNO | Appel | TS | TM | TC | TR | Commentaire |
| <b>CENTRALE DE MESURE</b>                 |     |        |       |      |      |      |      |           |      |       |    |    |    |    |             |
| Mesure intensité I0                       |     |        | RS485 |      |      |      |      |           |      |       |    |    |    |    |             |
| I0 Maximum                                |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I1                       |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I1 Maximum                                |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I2                       |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I2 Maximum                                |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure intensité I3                       |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| I3 Maximum                                |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U0                         |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U0 Maximum                                |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U1                         |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U1 Maximum                                |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U2                         |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U2 Maximum                                |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Tension U3                         |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| U3 Maximum                                |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Fréquence                          |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure cos phi                            |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure puissance Active PA                |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PA                                    |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance réactive                 |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PR                                    |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure puissance apparante PAP            |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Max PAP                                   |     |        |       |      |      |      |      |           |      |       |    | 1  |    | 1  | RAZ Max     |
| Mesure Energie active                     |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie Réactive                   |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |
| Mesure Energie apparence                  |     |        | RS485 |      |      |      |      |           |      |       |    | 1  |    |    |             |

| CENTRALE DE MESURE Tableau TDHQ02-LT1 2/2 |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |     |    |    |             |
|-------------------------------------------|-----|--------|-------|------|------|------|------|-----------|------|-------|----|-----|----|----|-------------|
| Libellé                                   | TAG | Haute  | COM   | ETOR | EANA | STOR | SANA | TA        | NFNO | Appel | TS | Tli | TC | TR | Commentaire |
| CENTRALE DE MESURE                        |     | 0      | 1     | 1    | 0    | 0    | 0    | 0         | 0    | 0     | 0  | 27  | 0  | 11 |             |
| Mesure intensité I0                       |     |        | RS485 |      |      |      |      |           |      |       |    | 1   |    |    |             |
| I0 Maximum                                |     |        |       |      |      |      |      |           |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure intensité I1                       |     |        | RS485 |      |      |      |      |           |      |       |    | 1   |    |    |             |
| I1 Maximum                                |     |        |       |      |      |      |      |           |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure intensité I2                       |     |        | RS485 |      |      |      |      |           |      |       |    | 1   |    |    |             |
| I2 Maximum                                |     |        |       |      |      |      |      |           |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure intensité I3                       |     |        | RS485 |      |      |      |      |           |      |       |    | 1   |    |    |             |
| I3 Maximum                                |     |        |       |      |      |      |      |           |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Tension U0                         |     |        | RS485 |      |      |      |      |           |      |       |    | 1   |    |    |             |
| U0 Maximum                                |     |        |       |      |      |      |      |           |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Tension U1                         |     |        | RS485 |      |      |      |      |           |      |       |    | 1   |    |    |             |
| U1 Maximum                                |     |        |       |      |      |      |      |           |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Tension U2                         |     |        | RS485 |      |      |      |      |           |      |       |    | 1   |    |    |             |
| U2 Maximum                                |     |        |       |      |      |      |      |           |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Tension U3                         |     |        | RS485 |      |      |      |      |           |      |       |    | 1   |    |    |             |
| U3 Maximum                                |     |        |       |      |      |      |      |           |      |       |    | 1   |    | 1  | RAZ Max     |
| Mesure Fréquence                          |     |        | RS485 |      |      |      |      |           |      |       |    | 1   |    |    |             |
| Mesure cos phi                            |     |        | RS485 |      |      |      |      |           |      |       |    | 1   |    |    |             |
| Mesure puissance Active PA                |     |        | RS485 |      |      |      |      |           |      |       |    | 1   |    |    |             |

[illegible]

| LOCAL HT                                      |     | LIASON |     | API  |      |      |      | SCADA API |       |      |    |    |    |    |                         |
|-----------------------------------------------|-----|--------|-----|------|------|------|------|-----------|-------|------|----|----|----|----|-------------------------|
| Libellé                                       | TAG | Flaire | COM | ETOR | EANA | STDR | SANA | TA        | NFINO | Appl | TS | TH | TC | TR | Commentaire             |
| Objet Cellule IM (Voir en début de liste)     |     | x      | x   | x    | x    | x    | x    | x         | x     | x    | x  | x  | x  | x  |                         |
| Objet cellule QM (Voir en début de liste)     |     | x      |     |      |      |      |      |           |       |      |    |    |    |    |                         |
| Objet Transformateur (Voir en début de liste) |     | x      |     |      |      |      |      |           |       |      |    |    |    |    |                         |
| T° local                                      |     | 1      |     | 1    |      |      |      | 1         |       |      | 1  |    |    | 1  | mesure - seuil - alarme |

| TABLEAU TGBT                                                |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |     |    |    |             |
|-------------------------------------------------------------|-----|--------|-------|------|------|------|------|-----------|------|-------|----|-----|----|----|-------------|
| Libellé                                                     | TAG | flanc  | SCOM  | ETOR | EANA | STOR | SANA | TA        | NFNO | Appel | TS | TTU | TC | TR | Commentaire |
| Tableau TGBT                                                |     | X      | X     | X    | X    | X    | X    | X         | X    | X     | X  | X   | X  | X  |             |
| Protection générale Transformateur n°1                      |     | 5      | 0     | 5    | 0    | 0    | 0    | 1         | 0    | 1     | 4  | 0   | 0  | 0  |             |
| Position ouvert/fermé                                       |     | 1      |       | 1    |      |      |      |           |      | 1     | 1  |     |    |    |             |
| Défaut disjoncteur                                          |     | 1      |       | 1    |      |      |      | 1         |      | 1     |    |     |    |    |             |
| Position embroché                                           |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position Test                                               |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position débroché                                           |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Objet centrale de mesure                                    |     |        | 1     |      |      |      |      |           |      |       |    |     |    |    |             |
| Protection générale Transformateur n°2                      |     | 5      | 0     | 5    | 0    | 0    | 0    | 1         | 0    | 1     | 4  | 0   | 0  | 0  |             |
| Position ouvert/fermé                                       |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Défaut disjoncteur                                          |     | 1      |       | 1    |      |      |      | 1         |      | 1     |    |     |    |    |             |
| Position embroché                                           |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position Test                                               |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position débroché                                           |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Objet centrale de mesure                                    |     |        | 1     |      |      |      |      |           |      |       |    |     |    |    |             |
| Protection générale Transformateur IRVE (Réserve de points) |     | 5      | 0     | 5    | 0    | 0    | 0    | 1         | 0    | 1     | 4  | 0   | 0  | 0  |             |
| Position ouvert/fermé                                       |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Défaut disjoncteur                                          |     | 1      |       | 1    |      |      |      | 1         |      | 1     |    |     |    |    |             |
| Position embroché                                           |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position Test                                               |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position débroché                                           |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Objet centrale de mesure                                    |     |        | 1     |      |      |      |      |           |      |       |    |     |    |    |             |
| Interrupteur Arrivée Groupe mobile                          |     | 2      | 0     | 2    | 0    | 0    | 0    | 0         | 0    | 0     | 2  | 0   | 0  | 0  |             |
| Position ouvert/fermé                                       |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position embroché / débroché                                |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Interrupteur de Couplage                                    |     | 2      | 0     | 2    | 0    | 0    | 0    | 0         | 0    | 0     | 2  | 0   | 0  | 0  |             |
| Position ouvert/fermé                                       |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position embroché / débroché                                |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Parafoudres                                                 |     | 2      | 0     | 2    | 0    | 0    | 0    | 0         | 0    | 0     | 2  | 0   | 0  | 0  |             |
| Déclenchement parafoudre sur JDB1                           |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Déclenchement parafoudre sur JDB2                           |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Départ motorisé IS333 AGBT D.VILLARD                        |     | X      | X     | X    | X    | X    | X    | X         | X    | X     | X  | X   | X  | X  |             |
| Position ouvert/fermé                                       |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position embroché                                           |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position Test                                               |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position débroché                                           |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position Disjonction (ouvert sur défaut)                    |     | 1      |       | 1    |      |      |      | 1         |      | 1     |    |     |    |    |             |
| Objet comptage d'énergie                                    |     |        | RS485 |      |      |      |      |           |      |       |    |     |    |    |             |
| Commande d'ouverture (Délestage site sud)                   |     | 1      |       |      | 1    |      |      |           |      |       |    |     |    |    |             |
| Commande Fermeture (Délestage site sud)                     |     | 1      |       |      | 1    |      |      |           |      |       |    |     |    |    |             |
| Position ouvert/fermé (Delestage site sud)                  |     | 1      |       | 1    |      |      |      | 1         |      |       |    |     |    |    |             |
| Position Local/distant (Delestage site sud)                 |     | 1      |       | 1    |      |      |      | 1         |      |       |    |     |    |    |             |
| Départ motorisé IS333 Coffret IRVE ancien T30               |     | X      | X     | X    | X    | X    | X    | X         | X    | X     | X  | X   | X  | X  |             |
| Position ouvert/fermé                                       |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position embroché                                           |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position Test                                               |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position débroché                                           |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position Disjonction (ouvert sur défaut)                    |     | 1      |       | 1    |      |      |      | 1         |      | 1     |    |     |    |    |             |
| Objet comptage d'énergie                                    |     |        | RS485 |      |      |      |      |           |      |       |    |     |    |    |             |
| Commande d'ouverture (Délestage site sud)                   |     | 1      |       |      | 1    |      |      |           |      |       |    |     |    |    |             |
| Commande Fermeture (Délestage site sud)                     |     | 1      |       |      | 1    |      |      |           |      |       |    |     |    |    |             |
| Position ouvert/fermé (Delestage site sud)                  |     | 1      |       | 1    |      |      |      | 1         |      |       |    |     |    |    |             |
| Position Local/distant (Delestage site sud)                 |     | 1      |       | 1    |      |      |      | 1         |      |       |    |     |    |    |             |
| Départ motorisé IS333 Tableau TD00-B attache 1              |     | X      | X     | X    | X    | X    | X    | X         | X    | X     | X  | X   | X  | X  |             |
| Position ouvert/fermé                                       |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position embroché                                           |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position Test                                               |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position débroché                                           |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position Disjonction (ouvert sur défaut)                    |     | 1      |       | 1    |      |      |      | 1         |      | 1     |    |     |    |    |             |
| Objet comptage d'énergie                                    |     |        | RS485 |      |      |      |      |           |      |       |    |     |    |    |             |
| Commande d'ouverture (Délestage site sud)                   |     | 1      |       |      | 1    |      |      |           |      |       |    |     |    |    |             |
| Commande Fermeture (Délestage site sud)                     |     | 1      |       |      | 1    |      |      |           |      |       |    |     |    |    |             |
| Position ouvert/fermé (Delestage site sud)                  |     | 1      |       | 1    |      |      |      | 1         |      |       |    |     |    |    |             |
| Position Local/distant (Delestage site sud)                 |     | 1      |       | 1    |      |      |      | 1         |      |       |    |     |    |    |             |
| Départ motorisé IS333 Tableau TD00-B attache 2              |     | X      | X     | X    | X    | X    | X    | X         | X    | X     | X  | X   | X  | X  |             |
| Position ouvert/fermé                                       |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position embroché                                           |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position Test                                               |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position débroché                                           |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position Disjonction (ouvert sur défaut)                    |     | 1      |       | 1    |      |      |      | 1         |      | 1     |    |     |    |    |             |
| Objet comptage d'énergie                                    |     |        | RS485 |      |      |      |      |           |      |       |    |     |    |    |             |
| Commande d'ouverture (Délestage site sud)                   |     | 1      |       |      | 1    |      |      |           |      |       |    |     |    |    |             |
| Commande Fermeture (Délestage site sud)                     |     | 1      |       |      | 1    |      |      |           |      |       |    |     |    |    |             |
| Position ouvert/fermé (Delestage site sud)                  |     | 1      |       | 1    |      |      |      | 1         |      |       |    |     |    |    |             |
| Position Local/distant (Delestage site sud)                 |     | 1      |       | 1    |      |      |      | 1         |      |       |    |     |    |    |             |
| Départ motorisé IS333 Tableau TD00-D attache 1              |     | X      | X     | X    | X    | X    | X    | X         | X    | X     | X  | X   | X  | X  |             |
| Position ouvert/fermé                                       |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position embroché                                           |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position Test                                               |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position débroché                                           |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position Disjonction (ouvert sur défaut)                    |     | 1      |       | 1    |      |      |      | 1         |      | 1     |    |     |    |    |             |
| Objet comptage d'énergie                                    |     |        | RS485 |      |      |      |      |           |      |       |    |     |    |    |             |
| Commande d'ouverture (Délestage site sud)                   |     | 1      |       |      | 1    |      |      |           |      |       |    |     |    |    |             |
| Commande Fermeture (Délestage site sud)                     |     | 1      |       |      | 1    |      |      |           |      |       |    |     |    |    |             |
| Position ouvert/fermé (Delestage site sud)                  |     | 1      |       | 1    |      |      |      | 1         |      |       |    |     |    |    |             |
| Position Local/distant (Delestage site sud)                 |     | 1      |       | 1    |      |      |      | 1         |      |       |    |     |    |    |             |
| Départ motorisé IS333 Tableau TD00-D attache 2              |     | X      | X     | X    | X    | X    | X    | X         | X    | X     | X  | X   | X  | X  |             |
| Position ouvert/fermé                                       |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position embroché                                           |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |
| Position Test                                               |     | 1      |       | 1    |      |      |      |           |      |       | 1  |     |    |    |             |

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[illegible]

[illegible]

| CHARGEUR Onduleur 1      |     | LIASON   |          | API      |          |          |          | SCADA API |          |          |          |          |          |          |                         |
|--------------------------|-----|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|-------------------------|
| Libellé                  | TAG | Rece     | SCOM     | ETOR     | EANA     | STOR     | SANA     | TA        | NFNO     | Appel    | TS       | TM       | TC       | TR       | Commentaire             |
| <b>Chargeur</b>          |     | <b>4</b> | <b>0</b> | <b>5</b> | <b>7</b> | <b>0</b> | <b>0</b> | <b>4</b>  | <b>0</b> | <b>3</b> | <b>5</b> | <b>7</b> | <b>0</b> | <b>1</b> |                         |
| Fonctionnement batterie  |     | 1        |          | 1        |          |          |          |           |          |          |          |          |          |          |                         |
| Pré-alarne fin autonomie |     | 1        |          | 1        |          |          |          | 1         |          | 1        | 1        |          |          |          |                         |
| Alarme générale          |     | 1        |          | 1        |          |          |          | 1         |          | 1        | 1        |          |          |          |                         |
| Alarme redresseur        |     |          | RS485    | 1        |          |          |          | 1         |          | 1        | 1        |          |          |          |                         |
| Etat (marche /arrêt)     |     |          | RS485    | 1        |          |          |          |           |          |          |          |          |          |          |                         |
| Reseau1 tension U1       |     |          | RS485    |          | 1        |          |          |           |          |          |          | 1        |          |          |                         |
| Reseau1 tension U2       |     |          | RS485    |          | 1        |          |          |           |          |          |          | 1        |          |          |                         |
| Reseau1 tension U2       |     |          | RS485    |          | 1        |          |          |           |          |          |          | 1        |          |          |                         |
| Batterie I               |     |          | RS485    |          | 1        |          |          |           |          |          |          | 1        |          |          |                         |
| Batterie U               |     |          | RS485    |          | 1        |          |          |           |          |          |          | 1        |          |          |                         |
| % charge                 |     |          | RS485    |          | 1        |          |          |           |          |          |          | 1        |          |          |                         |
|                          |     |          |          |          |          |          |          |           |          |          |          |          |          |          |                         |
| T° local                 |     | 1        |          |          | 1        |          |          | 1         |          |          |          | 1        |          | 1        | mesure - seuil - alarme |

| ONDULEUR 1 ASI                                       |     | LIASON |       | API  |      |      |      | SCADA API |      |      |    |     |    |    |             |
|------------------------------------------------------|-----|--------|-------|------|------|------|------|-----------|------|------|----|-----|----|----|-------------|
| Libellé                                              | TAG | Haute  | COM   | ETDR | EANA | STDR | SANA | TA        | NFNO | Appl | TS | TNI | TC | TR | Commentaire |
| Onduleur                                             |     | 4      | 0     | 20   | 13   | 0    | 0    | 17        | 0    | 8    | 17 | 13  | 1  | 1  |             |
| Default général                                      |     | 1      |       | 1    |      |      |      | 1         | 1    |      |    |     |    |    |             |
| pré alarme fin autonomie batteries                   |     | 1      |       | 1    |      |      |      | 1         |      |      |    |     |    |    |             |
| Fonctionnement sur batteries                         |     | 1      |       | 1    |      |      |      | 1         | 1    |      |    |     |    |    |             |
| Informations sur carte de communication              |     |        |       |      |      |      |      |           |      |      |    |     |    |    |             |
| Pré-Alarme fin de décharge (20% restant d'autonomie) |     |        | RS485 | 1    |      |      |      | 1         |      | 1    | 1  |     |    |    |             |
| Alarme fin de décharge (10% restant d'autonomie)     |     |        | RS485 | 1    |      |      |      | 1         |      | 1    | 1  |     |    |    |             |

|                                      |  |  |   |       |   |   |  |  |   |  |   |   |   |   |   |  |  |                                   |
|--------------------------------------|--|--|---|-------|---|---|--|--|---|--|---|---|---|---|---|--|--|-----------------------------------|
| Alarme décharge profonde batteries   |  |  |   | RS485 | 1 |   |  |  | 1 |  | 1 | 1 |   |   |   |  |  |                                   |
| Défaut général                       |  |  |   | RS485 | 1 |   |  |  | 1 |  | 1 | 1 |   |   |   |  |  |                                   |
| Défaut de communication              |  |  |   | RS485 | 1 |   |  |  | 1 |  | 1 | 1 |   |   |   |  |  |                                   |
| Température système                  |  |  |   | RS485 |   | 1 |  |  |   |  |   |   | 1 | 1 |   |  |  |                                   |
| Défaut surcharge                     |  |  |   | RS485 | 1 |   |  |  | 1 |  |   | 1 |   |   |   |  |  |                                   |
| Défaut tension réseau 1              |  |  |   | RS485 | 1 |   |  |  | 1 |  |   | 1 |   |   |   |  |  |                                   |
| Défaut tension réseau 2              |  |  |   | RS485 | 1 |   |  |  | 1 |  |   | 1 |   |   |   |  |  |                                   |
| défaut tension sortie                |  |  |   | RS485 | 1 |   |  |  | 1 |  |   | 1 |   |   |   |  |  |                                   |
| Réseau 1 hors tolérance              |  |  |   | RS485 | 1 |   |  |  | 1 |  |   | 1 |   |   |   |  |  |                                   |
| Réseau 2 hors tolérance              |  |  |   | RS485 | 1 |   |  |  | 1 |  |   | 1 |   |   |   |  |  |                                   |
| CPI contrôle réseau CC batteries     |  |  |   | RS485 | 1 |   |  |  | 1 |  |   | 1 |   |   |   |  |  |                                   |
| Relais statique sur réseau 1         |  |  |   | RS485 | 1 |   |  |  |   |  |   | 1 |   |   |   |  |  |                                   |
| Relais statique sur réseau 2         |  |  |   | RS485 | 1 |   |  |  |   |  |   | 1 |   |   |   |  |  |                                   |
| Position interrupteur By-Pass Manuel |  |  |   | RS485 | 1 |   |  |  |   |  |   | 1 |   |   |   |  |  |                                   |
| Chargeur batterie en fonctionnement  |  |  |   | RS485 | 1 |   |  |  |   |  |   | 1 |   |   |   |  |  |                                   |
| Redresseur en fonctionnement         |  |  |   | RS485 | 1 |   |  |  |   |  |   | 1 |   |   |   |  |  |                                   |
| Mesure I                             |  |  |   | RS485 |   | 1 |  |  |   |  |   |   | 1 |   |   |  |  | Réseau 1, réseau 2 et utilisation |
| Mesure U                             |  |  |   | RS485 |   | 1 |  |  |   |  |   |   | 1 |   |   |  |  | Réseau 1, réseau 2 et utilisation |
| Mesure P                             |  |  |   | RS485 |   | 1 |  |  |   |  |   |   | 1 |   |   |  |  | Réseau 1, réseau 2 et utilisation |
| Mesure S                             |  |  |   | RS485 |   | 1 |  |  |   |  |   |   | 1 |   |   |  |  |                                   |
| Mesure F                             |  |  |   | RS485 |   | 1 |  |  |   |  |   |   | 1 |   |   |  |  | Réseau 1, réseau 2 et utilisation |
| Mesure Cos phi                       |  |  |   | RS485 |   | 1 |  |  |   |  |   |   | 1 |   |   |  |  |                                   |
| Onduleur U                           |  |  |   | RS485 |   | 1 |  |  |   |  |   |   | 1 |   |   |  |  |                                   |
| Batterie U                           |  |  |   | RS485 |   | 1 |  |  |   |  |   |   | 1 |   |   |  |  |                                   |
| Batterie I                           |  |  |   | RS485 |   | 1 |  |  |   |  |   |   | 1 |   |   |  |  |                                   |
| Batterie temps autonomie             |  |  |   | RS485 |   | 1 |  |  |   |  |   |   | 1 |   |   |  |  |                                   |
| % charge                             |  |  |   | RS485 |   | 1 |  |  |   |  |   |   | 1 |   |   |  |  |                                   |
| T° local                             |  |  | 1 |       |   | 1 |  |  | 1 |  |   |   | 1 |   | 1 |  |  | mesure - seuil - alarme           |

| CHARGEUR Onduleur 2      |     | LIASON   |       | API  |      |      |      | SCADA API |       |       |    |    |    |    |                         |
|--------------------------|-----|----------|-------|------|------|------|------|-----------|-------|-------|----|----|----|----|-------------------------|
| Libellé                  | TAG | filiaire | COM   | ETOR | EANA | STOR | SANA | TA        | NFING | Appel | TS | TM | TC | TR | Commentaire             |
| <b>Chargeur</b>          |     | 4        | 0     | 5    | 7    | 0    | 0    | 4         | 0     | 3     | 5  | 7  | 0  | 1  |                         |
| Fonctionnement batterie  |     | 1        |       | 1    |      |      |      |           |       |       | 1  |    |    |    |                         |
| Pré-alarme fin autonomie |     | 1        |       | 1    |      |      |      | 1         |       | 1     | 1  |    |    |    |                         |
| Alarme générale          |     | 1        |       | 1    |      |      |      | 1         |       | 1     | 1  |    |    |    |                         |
| Alarme redresseur        |     |          | RS485 | 1    |      |      |      | 1         | 1     | 1     | 1  |    |    |    |                         |
| Etat (marche /arrêt)     |     |          | RS485 | 1    |      |      |      |           |       | 1     | 1  |    |    |    |                         |
| Reseau1 tension U1       |     |          | RS485 |      | 1    |      |      |           |       |       |    | 1  |    |    |                         |
| Reseau1 tension U2       |     |          | RS485 |      | 1    |      |      |           |       |       |    | 1  |    |    |                         |
| Reseau1 tension U2       |     |          | RS485 |      | 1    |      |      |           |       |       |    | 1  |    |    |                         |
| Batterie I               |     |          | RS485 |      | 1    |      |      |           |       |       |    | 1  |    |    |                         |
| Batterie U               |     |          | RS485 |      | 1    |      |      |           |       |       |    | 1  |    |    |                         |
| % charge                 |     |          | RS485 |      | 1    |      |      |           |       |       |    | 1  |    |    |                         |
|                          |     |          |       |      |      |      |      |           |       |       |    |    |    |    |                         |
| T° local                 |     | 1        |       |      | 1    |      |      | 1         |       |       |    | 1  |    | 1  | mesure - seuil - alarme |

| ONDULEUR 2 ASI                                       |     | LIASON  |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |                                   |
|------------------------------------------------------|-----|---------|-------|------|------|------|------|-----------|------|-------|----|----|----|----|-----------------------------------|
| Libellé                                              | TAG | liaison | COM   | ETOR | EANA | STOR | SANA | TA        | VFNG | Aggr1 | TS | TM | TC | TR | Commentaire                       |
| <b>ONDULEUR</b>                                      |     | 4       | 0     | 20   | 13   | 0    | 0    | 17        | 0    | 8     | 17 | 13 | 1  | 1  |                                   |
| Défaut général                                       |     | 1       |       | 1    |      |      |      | 1         |      | 1     |    |    |    |    |                                   |
| pré alarme fin autonomie batteries                   |     | 1       |       | 1    |      |      |      | 1         |      | 1     |    |    |    |    |                                   |
| Fonctionnement sur batteries                         |     | 1       |       | 1    |      |      |      | 1         |      | 1     |    |    |    |    |                                   |
| Informations sur carte de communication              |     |         |       |      |      |      |      |           |      |       |    |    |    |    |                                   |
| Pré-Alarme fin de décharge (20% restant d'autonomie) |     |         | RS485 | 1    |      |      |      | 1         |      | 1     | 1  |    |    |    |                                   |
| Alarme fin de décharge (10% restant d'autonomie)     |     |         | RS485 | 1    |      |      |      | 1         |      | 1     | 1  |    |    |    |                                   |
| Alarme décharge profonde batteries                   |     |         | RS485 | 1    |      |      |      | 1         |      | 1     | 1  |    |    |    |                                   |
| Défaut général                                       |     |         | RS485 | 1    |      |      |      | 1         |      | 1     | 1  |    |    |    |                                   |
| Défaut de communication                              |     |         | RS485 | 1    |      |      |      | 1         |      | 1     | 1  |    |    |    |                                   |
| Température système                                  |     |         | RS485 |      | 1    |      |      | 1         |      |       |    | 1  | 1  |    |                                   |
| Défaut surcharge                                     |     |         | RS485 | 1    |      |      |      | 1         |      |       | 1  |    |    |    |                                   |
| Défaut tension réseau 1                              |     |         | RS485 | 1    |      |      |      | 1         |      |       | 1  |    |    |    |                                   |
| Défaut tension réseau 2                              |     |         | RS485 | 1    |      |      |      | 1         |      |       | 1  |    |    |    |                                   |
| défaut tension sortie                                |     |         | RS485 | 1    |      |      |      | 1         |      |       | 1  |    |    |    |                                   |
| Réseau 1 hors tolérance                              |     |         | RS485 | 1    |      |      |      | 1         |      |       | 1  |    |    |    |                                   |
| Réseau 2 hors tolérance                              |     |         | RS485 | 1    |      |      |      | 1         |      |       | 1  |    |    |    |                                   |
| CPI contrôle réseau CC batteries                     |     |         | RS485 | 1    |      |      |      | 1         |      |       | 1  |    |    |    |                                   |
| Relais statique sur réseau 1                         |     |         | RS485 | 1    |      |      |      |           |      |       | 1  |    |    |    |                                   |
| Relais statique sur réseau 2                         |     |         | RS485 | 1    |      |      |      |           |      |       | 1  |    |    |    |                                   |
| Position interrupteur By-Pass Manuel                 |     |         | RS485 | 1    |      |      |      |           |      |       | 1  |    |    |    |                                   |
| Chargeur batterie en fonctionnement                  |     |         | RS485 | 1    |      |      |      |           |      |       | 1  |    |    |    |                                   |
| Redresseur en fonctionnement                         |     |         | RS485 | 1    |      |      |      |           |      |       | 1  |    |    |    |                                   |
| Mesure I                                             |     |         | RS485 |      | 1    |      |      |           |      |       |    | 1  |    |    | Reseau 1, reseau 2 et utilisation |
| Mesure U                                             |     |         | RS485 |      | 1    |      |      |           |      |       |    | 1  |    |    | Reseau 1, reseau 2 et utilisation |
| Mesure P                                             |     |         | RS485 |      | 1    |      |      |           |      |       |    | 1  |    |    | Reseau 1, reseau 2 et utilisation |
| Mesure S                                             |     |         | RS485 |      | 1    |      |      |           |      |       |    | 1  |    |    |                                   |
| Mesure F                                             |     |         | RS485 |      | 1    |      |      |           |      |       |    | 1  |    |    | Reseau 1, reseau 2 et utilisation |
| Mesure Cos phi                                       |     |         | RS485 |      | 1    |      |      |           |      |       |    | 1  |    |    |                                   |
| Onduleur U                                           |     |         | RS485 |      | 1    |      |      |           |      |       |    | 1  |    |    |                                   |
| Batterie U                                           |     |         | RS485 |      | 1    |      |      |           |      |       |    | 1  |    |    |                                   |
| Batterie I                                           |     |         | RS485 |      | 1    |      |      |           |      |       |    | 1  |    |    |                                   |
| Batterie temps autonomie                             |     |         | RS485 |      | 1    |      |      |           |      |       |    | 1  |    |    |                                   |
| % charge                                             |     |         | RS485 |      | 1    |      |      |           |      |       |    | 1  |    |    |                                   |
| T° local                                             |     | 1       |       |      | 1    |      |      | 1         |      |       |    | 1  |    | 1  | mesure - seuil - alarme           |

| CHARGEUR Onduleur 3      |     | LIASON  |       | API  |       |      |      | SCADA API |       |       |    |    |    |    |                         |
|--------------------------|-----|---------|-------|------|-------|------|------|-----------|-------|-------|----|----|----|----|-------------------------|
| Libellé                  | TAG | Eliaire | COM   | ETOR | ENANA | STOR | SANA | TA        | NFING | Appel | TS | TM | FC | TR | Commentaire             |
| <b>Chargeur</b>          |     | 4       | 0     | 5    | 7     | 0    | 0    | 4         | 0     | 3     | 5  | 7  | 0  | 1  |                         |
| Fonctionnement batterie  |     | 1       |       | 1    |       |      |      |           |       |       | 1  |    |    |    |                         |
| Pré-alarme fin autonomie |     | 1       |       | 1    |       |      |      | 1         |       | 1     | 1  |    |    |    |                         |
| Alarme générale          |     | 1       |       | 1    |       |      |      | 1         |       | 1     | 1  |    |    |    |                         |
| Alarme redresseur        |     |         | RS485 | 1    |       |      |      | 1         |       | 1     | 1  |    |    |    |                         |
| Etat (marche /arrêt)     |     |         | RS485 | 1    |       |      |      |           |       | 1     | 1  |    |    |    |                         |
| Reseau1 tension U1       |     |         | RS485 |      | 1     |      |      |           |       |       |    |    | 1  |    |                         |
| Reseau1 tension U2       |     |         | RS485 |      | 1     |      |      |           |       |       |    |    | 1  |    |                         |
| Reseau1 tension U2       |     |         | RS485 |      | 1     |      |      |           |       |       |    |    | 1  |    |                         |
| Batterie I               |     |         | RS485 |      | 1     |      |      |           |       |       |    |    | 1  |    |                         |
| Batterie U               |     |         | RS485 |      | 1     |      |      |           |       |       |    |    | 1  |    |                         |
| % charge                 |     |         | RS485 |      | 1     |      |      |           |       |       |    |    | 1  |    |                         |
|                          |     |         |       |      |       |      |      |           |       |       |    |    |    |    |                         |
| T° local                 |     | 1       |       |      | 1     |      |      | 1         |       |       |    | 1  |    | 1  | mesure - seuil - alarme |

| ONDULEUR 3 ASI                                       |     | LIASON |       | API  |       |      |      | SCADA API |      |       |    |    |    |    |             |
|------------------------------------------------------|-----|--------|-------|------|-------|------|------|-----------|------|-------|----|----|----|----|-------------|
| Libellé                                              | TAG | Alarme | COM   | ETOR | EVANA | STOR | SANA | TA        | VFNG | Appel | TS | TM | TC | TR | Commentaire |
| <b>Onduleur</b>                                      |     | 4      | 0     |      |       |      |      | 17        | 0    | 8     | 17 | 13 | 1  | 1  |             |
| Défaut général                                       |     | 1      |       | 1    |       |      |      |           | 1    |       |    |    |    |    |             |
| pré alarme fin autonomie batteries                   |     | 1      |       | 1    |       |      |      | 1         | 1    |       |    |    |    |    |             |
| Fonctionnement sur batteries                         |     | 1      |       | 1    |       |      |      | 1         | 1    |       |    |    |    |    |             |
| Informations sur carte de communication              |     |        |       |      |       |      |      |           |      |       |    |    |    |    |             |
| Pré-Alarme fin de décharge (20% restant d'autonomie) |     |        | RS485 | 1    |       |      |      | 1         |      | 1     | 1  |    |    |    |             |
| Alarme fin de décharge (10% restant d'autonomie)     |     |        | RS485 | 1    |       |      |      | 1         |      | 1     | 1  |    |    |    |             |
| Alarme décharge profonde batteries                   |     |        | RS485 | 1    |       |      |      | 1         |      | 1     | 1  |    |    |    |             |
| Défaut général                                       |     |        | RS485 | 1    |       |      |      |           | 1    | 1     | 1  |    |    |    |             |
| Défaut de communication                              |     |        | RS485 | 1    |       |      |      |           | 1    | 1     | 1  |    |    |    |             |
| Température système                                  |     |        | RS485 |      | 1     |      |      | 1         |      |       |    | 1  | 1  |    |             |
| Défaut surcharge                                     |     |        | RS485 | 1    |       |      |      | 1         |      |       | 1  |    |    |    |             |
| Défaut tension réseau 1                              |     |        | RS485 | 1    |       |      |      | 1         |      |       | 1  |    |    |    |             |

[illegible]

| TGHQ 1                                      |     | LIASON  |       | API  |       |      |       | SCADA API |       |       |    |    |    |    |                         |
|---------------------------------------------|-----|---------|-------|------|-------|------|-------|-----------|-------|-------|----|----|----|----|-------------------------|
| Libellé                                     | TAG | liaison | COM   | ETOR | ENANA | ETOR | ENANA | TA        | ENFNG | Aggrt | TS | TM | TC | TR | Commentaire             |
| <b>TGHQ1</b>                                |     | 8       | 0     | 8    | 0     | 0    | 0     | 2         | 0     | 2     | 6  | 0  | 0  | 0  |                         |
| Protection générale                         |     | 5       | 0     | 5    | 0     | 0    | 0     | 1         | 0     | 1     | 4  | 0  | 0  | 0  |                         |
| Position ouvert/fermé                       |     | 1       |       | 1    |       |      |       | 1         |       | 1     |    |    |    |    |                         |
| Défaut disjoncteur                          |     | 1       |       | 1    |       |      |       |           |       | 1     |    |    |    |    |                         |
| Position embroché                           |     | 1       |       | 1    |       |      |       |           |       |       | 1  |    |    |    |                         |
| Position Test                               |     | 1       |       | 1    |       |      |       |           |       |       | 1  |    |    |    |                         |
| Position débouché                           |     | 1       |       | 1    |       |      |       |           |       |       | 1  |    |    |    |                         |
| Objet centrale de mesure                    |     |         | 1     |      |       |      |       |           |       |       |    |    |    |    |                         |
| Parafoudres                                 |     | 1       | 0     | 1    | 0     | 0    | 0     | 0         | 0     | 0     | 1  | 0  | 0  | 0  |                         |
| Déclenchement parafoudre                    |     | 1       |       | 1    |       |      |       |           |       |       | 1  |    |    |    |                         |
| Départ motorisé TDHQ1-C attache 1           |     | 2       | 0     | 2    | 0     | 0    | 0     | 1         | 0     | 1     | 1  | 0  | 0  | 0  |                         |
| Position ouvert/fermé                       |     | 1       |       | 1    |       |      |       |           |       |       | 1  |    |    |    |                         |
| Position Disjonction (ouvert sur défaut)    |     | 1       |       | 1    |       |      |       | 1         |       | 1     |    |    |    |    |                         |
| Départ motorisé Tableau TDHQ1-Local VDI 1/2 |     | 2       | 0     | 2    | 0     | 0    | 0     | 1         | 0     | 1     | 1  | 0  | 0  | 0  |                         |
| Position ouvert/fermé                       |     | 1       |       | 1    |       |      |       |           |       |       | 1  |    |    |    |                         |
| Position Disjonction (ouvert sur défaut)    |     | 1       |       | 1    |       |      |       | 1         |       | 1     |    |    |    |    |                         |
| Départ motorisé TDHQ2-A attache 1           |     | 2       | 0     | 2    | 0     | 0    | 0     | 1         | 0     | 1     | 1  | 0  | 0  | 0  |                         |
| Position ouvert/fermé                       |     | 1       |       | 1    |       |      |       |           |       |       | 1  |    |    |    |                         |
| Position Disjonction (ouvert sur défaut)    |     | 1       |       | 1    |       |      |       | 1         |       | 1     |    |    |    |    |                         |
| Position Disjonction (ouvert sur défaut)    |     | 1       |       | 1    |       |      |       | 1         |       | 1     |    |    |    |    |                         |
| Départ motorisé Tableau TDHQ2-LT2 1/2       |     | 2       | 0     | 2    | 0     | 0    | 0     | 1         | 0     | 1     | 1  | 0  | 0  | 0  |                         |
| Position ouvert/fermé                       |     | 1       |       | 1    |       |      |       |           |       |       | 1  |    |    |    |                         |
| Position Disjonction (ouvert sur défaut)    |     | 1       |       | 1    |       |      |       | 1         |       | 1     |    |    |    |    |                         |
| Départ motorisé Tableau TDHQ2-C attache 1   |     | 2       | 0     | 2    | 0     | 0    | 0     | 1         | 0     | 1     | 1  | 0  | 0  | 0  |                         |
| Position ouvert/fermé                       |     | 1       |       | 1    |       |      |       |           |       |       | 1  |    |    |    |                         |
| Position Disjonction (ouvert sur défaut)    |     | 1       |       | 1    |       |      |       | 1         |       | 1     |    |    |    |    |                         |
| Départ motorisé Tableau TDHQ2-LT1 1/2       |     | 2       | 0     | 2    | 0     | 0    | 0     | 1         | 0     | 1     | 1  | 0  | 0  | 0  |                         |
| Position ouvert/fermé                       |     | 1       |       | 1    |       |      |       |           |       |       | 1  |    |    |    |                         |
| Position Disjonction (ouvert sur défaut)    |     | 1       |       | 1    |       |      |       | 1         |       | 1     |    |    |    |    |                         |
| Objet comptage d'énergie                    |     |         | RS485 |      |       |      |       |           |       |       |    |    |    |    |                         |
| 1° local                                    |     | 1       |       | 1    |       |      |       | 1         |       |       |    | 1  |    | 1  | mesure - seuil - alarme |

| TGHQ 2                                      |     | LIASON |       | API  |      |      |      | SCADA API |      |       |      |      |      |      |                         |  |  |
|---------------------------------------------|-----|--------|-------|------|------|------|------|-----------|------|-------|------|------|------|------|-------------------------|--|--|
| Libellé                                     | TAG | Idare  | COM   | ETOR | ENVA | STOR | SAVA | FA        | WFAO | Appel | FS   | TM   | TC   | FR   | Commentaire             |  |  |
| TGHQ1                                       |     | #REF!  | #REF! | #### | #### | #### | #### | ####      | #### | ####  | #### | #### | #### | #### |                         |  |  |
| Protection générale                         |     | 1      | 0     | 5    | 0    | 0    | 0    | 1         | 0    | 1     | 4    | 0    | 0    | 0    |                         |  |  |
| Position ouvert/fermé                       |     | 1      |       | 1    |      |      |      |           |      |       | 1    |      |      |      |                         |  |  |
| Défaut disjoncteur                          |     | 1      |       | 1    |      |      |      | 1         |      | 1     |      |      |      |      |                         |  |  |
| Position embroché                           |     | 1      |       | 1    |      |      |      |           |      |       | 1    |      |      |      |                         |  |  |
| Position Test                               |     | 1      |       | 1    |      |      |      |           |      |       | 1    |      |      |      |                         |  |  |
| Position débroché                           |     | 1      |       | 1    |      |      |      |           |      |       | 1    |      |      |      |                         |  |  |
| Objet centrale de mesure                    |     |        | 1     |      |      |      |      |           |      |       |      |      |      |      |                         |  |  |
| Parafoudres                                 |     | 1      | 0     | 1    | 0    | 0    | 0    | 0         | 0    | 0     | 1    | 0    | 0    | 0    |                         |  |  |
| Déclenchement parafoudre                    |     | 1      |       | 1    |      |      |      |           |      |       | 1    |      |      |      |                         |  |  |
| Départ motorisé TDHQ1-C attache 2           |     | 2      | 0     | 2    | 0    | 0    | 0    | 1         | 0    | 1     | 1    | 0    | 0    | 0    |                         |  |  |
| Position ouvert/fermé                       |     | 1      |       | 1    |      |      |      |           |      |       | 1    |      |      |      |                         |  |  |
| Position Disjonction (ouvert sur défaut)    |     | 1      |       | 1    |      |      |      | 1         |      | 1     |      |      |      |      |                         |  |  |
| Départ motorisé Tableau TDHQ1-Local VDI 2/2 |     | 2      | 0     | 2    | 0    | 0    | 0    | 1         | 0    | 1     | 1    | 0    | 0    | 0    |                         |  |  |
| Position ouvert/fermé                       |     | 1      |       | 1    |      |      |      |           |      |       | 1    |      |      |      |                         |  |  |
| Position Disjonction (ouvert sur défaut)    |     | 1      |       | 1    |      |      |      | 1         |      | 1     |      |      |      |      |                         |  |  |
| Départ motorisé TDHQ2-A attache 2           |     | 2      | 0     | 2    | 0    | 0    | 0    | 1         | 0    | 1     | 1    | 0    | 0    | 0    |                         |  |  |
| Position ouvert/fermé                       |     | 1      |       | 1    |      |      |      |           |      |       | 1    |      |      |      |                         |  |  |
| Position Disjonction (ouvert sur défaut)    |     | 1      |       | 1    |      |      |      | 1         |      | 1     |      |      |      |      |                         |  |  |
| Départ motorisé Tableau TDHQ2-LT2 2/2       |     | 2      | 0     | 2    | 0    | 0    | 0    | 1         | 0    | 1     | 1    | 0    | 0    | 0    |                         |  |  |
| Position ouvert/fermé                       |     | 1      |       | 1    |      |      |      |           |      |       | 1    |      |      |      |                         |  |  |
| Position Disjonction (ouvert sur défaut)    |     | 1      |       | 1    |      |      |      | 1         |      | 1     |      |      |      |      |                         |  |  |
| Départ motorisé Tableau TDHQ2-C attache 2   |     | 2      | 0     | 2    | 0    | 0    | 0    | 1         | 0    | 1     | 1    | 0    | 0    | 0    |                         |  |  |
| Position ouvert/fermé                       |     | 1      |       | 1    |      |      |      |           |      |       | 1    |      |      |      |                         |  |  |
| Position Disjonction (ouvert sur défaut)    |     | 1      |       | 1    |      |      |      | 1         |      | 1     |      |      |      |      |                         |  |  |
| Départ motorisé Tableau TDHQ2-LT1 2/2       |     | 2      | 0     | 2    | 0    | 0    | 0    | 1         | 0    | 1     | 1    | 0    | 0    | 0    |                         |  |  |
| Position ouvert/fermé                       |     | 1      |       | 1    |      |      |      |           |      |       | 1    |      |      |      |                         |  |  |
| Position Disjonction (ouvert sur défaut)    |     | 1      |       | 1    |      |      |      | 1         |      | 1     |      |      |      |      |                         |  |  |
| Départ motorisé Tableau TDHQ2-Local VDI 2/2 |     | 2      | 0     | 2    | 0    | 0    | 0    | 1         | 0    | 1     | 1    | 0    | 0    | 0    |                         |  |  |
| Position ouvert/fermé                       |     | 1      |       | 1    |      |      |      |           |      |       | 1    |      |      |      |                         |  |  |
| Position Disjonction (ouvert sur défaut)    |     | 1      |       | 1    |      |      |      | 1         |      | 1     |      |      |      |      |                         |  |  |
| Objet comptage d'énergie                    |     |        | RS485 |      |      |      |      |           |      |       |      |      |      |      |                         |  |  |
| 1° local                                    |     | 1      |       |      | 1    |      |      | 1         |      |       |      | 1    |      | 1    | mesure - seuil - alarme |  |  |

| MODULE DE TRANSFERT DE CHARGE TDHQ01-C  |     | LIASON |       | API  |      |      |      | SCADA API |     |      |    |    |    |    |             |
|-----------------------------------------|-----|--------|-------|------|------|------|------|-----------|-----|------|----|----|----|----|-------------|
| Libellé                                 | TAG | Rece   | Don   | ETOR | EANA | STOR | SANA | TA        | WFO | Appl | TS | TM | TC | TR | Commentaire |
| <b>Transfert de charge TDHQ01-C</b>     |     | 1      | 0     | 2    | 8    | 0    | 0    | 2         | 0   | 1    | 0  | 8  | 0  | 0  |             |
| Défaut de synthèse STS                  |     | 1      |       | 1    |      |      |      | 1         |     |      |    |    |    |    |             |
| Défaut de communication                 |     |        | RS485 | 1    |      |      |      | 1         |     | 1    |    |    |    |    |             |
| Informations sur carte de communication |     |        | RS485 |      |      |      |      |           |     |      |    |    |    |    |             |
| Mesure I                                |     |        | RS485 | 1    |      |      |      |           |     |      |    | 1  |    |    |             |
| Mesure U                                |     |        | RS485 | 1    |      |      |      |           |     |      |    | 1  |    |    |             |
| Mesure P active, réactive               |     |        | RS485 | 1    |      |      |      |           |     |      |    | 1  |    |    |             |
| Mesure S                                |     |        | RS485 | 1    |      |      |      |           |     |      |    | 1  |    |    |             |
| Mesure F                                |     |        | RS485 | 1    |      |      |      |           |     |      |    | 1  |    |    |             |
| Mesure Cos phi                          |     |        | RS485 | 1    |      |      |      |           |     |      |    | 1  |    |    |             |
| Taux de charge                          |     |        | RS485 | 1    |      |      |      |           |     |      |    | 1  |    |    |             |
| Déphasage                               |     |        | RS485 | 1    |      |      |      |           |     |      |    | 1  |    |    |             |

| MODULE DE TRANSFERT DE CHARGE TDHQ02-A  |     | LIASON |       | API  |      |      |      | SCADA API |      |      |    |    |    |    |             |
|-----------------------------------------|-----|--------|-------|------|------|------|------|-----------|------|------|----|----|----|----|-------------|
| Libellé                                 | TAG | liaire | COM   | ETOR | IANA | STOR | SANA | TA        | IFNO | Appl | TS | TM | TC | TR | Commentaire |
| Transfert de charge TDHQ02-A            |     | 1      | 0     | 2    | 8    | 0    | 0    | 2         | 0    | 1    | 0  | 8  | 0  | 0  |             |
| Défaut de synthèse STS                  |     | 1      |       | 1    |      |      |      | 1         |      |      |    |    |    |    |             |
| Défaut de communication                 |     |        | RS485 | 1    |      |      |      |           |      | 1    |    |    |    |    |             |
| Informations sur carte de communication |     |        | RS485 |      |      |      |      | 1         |      |      |    |    |    |    |             |
| Mesure I                                |     |        | RS485 | 1    |      |      |      |           |      |      |    | 1  |    |    |             |
| Mesure U                                |     |        | RS485 | 1    |      |      |      |           |      |      |    | 1  |    |    |             |
| Mesure P active, réactive               |     |        | RS485 | 1    |      |      |      |           |      |      |    | 1  |    |    |             |
| Mesure S                                |     |        | RS485 | 1    |      |      |      |           |      |      |    | 1  |    |    |             |
| Mesure F                                |     |        | RS485 | 1    |      |      |      |           |      |      |    | 1  |    |    |             |
| Mesure Cos phi                          |     |        | RS485 | 1    |      |      |      |           |      |      |    | 1  |    |    |             |
| Taux de charge                          |     |        | RS485 | 1    |      |      |      |           |      |      |    | 1  |    |    |             |

[illegible]

|                                                         |  |   |       |   |   |   |   |   |   |   |   |    |   |    |             |
|---------------------------------------------------------|--|---|-------|---|---|---|---|---|---|---|---|----|---|----|-------------|
| Compteur kwh                                            |  |   | 1     |   |   |   |   |   |   |   |   |    | 1 |    | Vue Gaine   |
| Objet Centrale de mesure ( <b>En Fonction du CCTP</b> ) |  | 1 | RS485 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 0 | 12 | Voir détail |
| Defaut spécifique ( <b>En Fonction du CCTP</b> )        |  | X | X     |   |   |   |   | X |   |   |   |    |   |    | Vue Gaine   |

| TDHQ01-Local VDI 1/2                           |     | LIASON |       | API  |       |       |      | SCADA API |      |      |    |    |    |    |             |  |
|------------------------------------------------|-----|--------|-------|------|-------|-------|------|-----------|------|------|----|----|----|----|-------------|--|
| Libellé                                        | TAG | liaire | ICOM  | ETOR | ENANA | ISTOR | SANA | TA        | NFNO | Apud | TS | TM | TC | TR | Commentaire |  |
| TDO                                            |     | 5      | 1     | 4    | 0     | 0     | 0    | 2         | 0    | 1    | 2  | 29 | 0  | 12 |             |  |
| Position inverseur Général                     |     | 1      |       | 2    |       |       |      |           |      |      | 2  |    |    |    | Vue Gaine   |  |
| Défaut inverseur general                       |     | 1      |       | 1    |       |       |      | 1         |      |      |    |    |    |    | Vue Gaine   |  |
| Présence/Manque tension                        |     | 1      |       | 1    |       |       |      |           |      |      | 1  |    |    |    | Vue Gaine   |  |
| Déclenchement parafoudre                       |     | 1      |       | 1    |       |       |      |           |      |      | 1  |    |    |    | Vue Gaine   |  |
| Défaut de synthèse disjoncteurs départs        |     | 1      |       | 1    |       |       |      |           |      | 1    |    |    |    |    | Vue Gaine   |  |
| Compteur kwh                                   |     |        | 1     |      |       |       |      |           |      |      |    | 1  |    |    | Vue Gaine   |  |
| Objet Centrale de mesure (En Fonction du CCTP) |     | 1      | RS485 | 0    | 0     | 0     | 0    | 0         | 0    | 0    | 0  | 28 | 0  | 12 | Voir détail |  |
| Défaut spécifique (En Fonction du CCTP)        |     | X      |       | X    |       |       |      | X         |      |      |    |    |    |    | Vue Gaine   |  |

| TDHQ01-Local VDI 2/2                           |     | LIASON   |          | API      |          |          |          | SCADA API |          |          |          |           |          |           |             |
|------------------------------------------------|-----|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|-----------|----------|-----------|-------------|
| Libellé                                        | TAG | liaire   | COM      | ETOR     | ENANA    | STOR     | SANA     | TA        | INFNO    | Appli    | TS       | TM        | TC       | TR        | Commentaire |
| <b>TDO</b>                                     |     | <b>5</b> | <b>1</b> | <b>4</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>2</b>  | <b>0</b> | <b>1</b> | <b>2</b> | <b>29</b> | <b>0</b> | <b>12</b> |             |
| Position inverseur Général                     |     | 1        |          | 2        |          |          |          |           |          |          | 2        |           |          |           | Vue Gainé   |
| Défaut inverseur general                       |     | 1        |          | 1        |          |          |          | 1         |          |          |          |           |          |           | Vue Gainé   |
| Présence/Manque tension                        |     | 1        |          | 1        |          |          |          |           |          |          |          |           |          |           | Vue Gainé   |
| Déclenchement parafoudre                       |     | 1        |          | 1        |          |          |          |           |          |          | 1        |           |          |           | Vue Gainé   |
| Défaut de synthèse disjoncteurs départs        |     | 1        |          | 1        |          |          |          | 1         |          | 1        |          |           |          |           | Vue Gainé   |
| Compteur kwh                                   |     |          | 1        |          |          |          |          |           |          |          |          | 1         |          |           | Vue Gainé   |
| Objet Centrale de mesure (En Fonction du CCTP) |     | 1        | RS485    | 0        | 0        | 0        | 0        | 0         | 0        | 0        | 0        | 28        | 0        | 12        | Voir détail |
| Défaut spécifique (En Fonction du CCTP)        |     | X        |          | X        |          |          |          | X         |          |          |          |           |          |           |             |

| TDHQ02-A                                       |     | LIASON |       | API  |      |       |       | SCADA API |       |         |    |    |    |    |             |
|------------------------------------------------|-----|--------|-------|------|------|-------|-------|-----------|-------|---------|----|----|----|----|-------------|
| Libellé                                        | TAG | Flotte | COM   | ETOR | EANA | ISTOR | ISANA | TA        | INFNO | Alapari | TS | TM | TC | TR | Commentaire |
| <b>TDO</b>                                     |     | 7      | 1     | 6    | 0    | 0     | 0     | 1         | 0     | 1       | 5  | 30 | 0  | 12 |             |
| Position inverseur automatique général         |     | 1      | 1     | 1    |      |       |       |           |       |         | 2  |    |    |    | Vue Gaine   |
| Défaut général inverseur automatique général   |     | 1      | 1     |      |      |       |       | 1         |       |         |    |    |    |    | Vue Gaine   |
| Interrupteur reseau1 inverseur                 |     | 1      |       |      |      |       |       |           |       |         | 1  |    |    |    | Vue Gaine   |
| Interrupteur utilisation                       |     | 1      | 1     |      |      |       |       |           |       |         | 1  |    |    |    | Vue Gaine   |
| Interrupteur by pass                           |     | 1      | 1     |      |      |       |       |           |       |         | 1  |    |    |    | Vue Gaine   |
| Présence/Manque tension                        |     | 1      | 1     |      |      |       |       |           |       |         | 1  |    |    |    | Vue Gaine   |
| Déclenchement parafoudre                       |     | 1      | 1     |      |      |       |       |           |       |         | 1  |    |    |    | Vue Gaine   |
| Défaut de synthèse disjoncteurs départs        |     | 1      | 1     |      |      |       |       | 1         |       | 1       |    |    |    |    | Vue Gaine   |
| Compteur kwh                                   |     |        | 2     |      |      |       |       |           |       |         |    | 2  |    |    | Vue Gaine   |
| Objet Centrale de mesure (En Fonction du CCTP) |     | 1      | RS485 | 0    | 0    | 0     | 0     | 0         | 0     | 0       | 0  | 28 | 0  | 12 | Voir détail |
| Défaut spécifique (En Fonction du CCTP)        |     | X      |       | X    |      |       |       | X         |       |         |    |    |    |    | Vue Gaine   |

| TDHQ02-C                                       |     | LIASON |       | API  |       |      |       | SCADA API |      |       |    |    |    |    |             |
|------------------------------------------------|-----|--------|-------|------|-------|------|-------|-----------|------|-------|----|----|----|----|-------------|
| Libellé                                        | TAG | Reine  | COM   | ETOR | ENANA | STOR | SIANA | TA        | MFNO | Appli | TS | TM | TC | TR | Commentaire |
| <b>TDO</b>                                     |     | 7      | 1     | 6    | 0     | 0    | 0     | 1         | 0    | 1     | 5  | 30 | 0  | 12 |             |
| Position inverseur automatique général         |     | 1      | 1     | 1    |       |      |       |           |      |       | 2  |    |    |    | Vue Gainé   |
| Défaut général inverseur automatique général   |     | 1      | 1     | 1    |       |      |       | 1         |      |       |    |    |    |    | Vue Gainé   |
| Interrupteur reseau1 inverseur                 |     | 1      | 1     | 1    |       |      |       |           |      |       | 1  |    |    |    | Vue Gainé   |
| Interrupteur utilisation                       |     | 1      | 1     | 1    |       |      |       |           |      |       | 1  |    |    |    | Vue Gainé   |
| Interrupteur by pass                           |     | 1      | 1     | 1    |       |      |       |           |      |       | 1  |    |    |    | Vue Gainé   |
| Présence/Manque tension                        |     | 1      | 1     | 1    |       |      |       |           |      |       | 1  |    |    |    | Vue Gainé   |
| Déclenchement parafoudre                       |     | 1      | 1     | 1    |       |      |       |           |      |       | 1  |    |    |    | Vue Gainé   |
| Défaut de synthèse disjoncteurs départs        |     | 1      | 1     | 1    |       |      |       | 1         |      | 1     |    |    |    |    | Vue Gainé   |
| Compteur kwh                                   |     |        | 2     |      |       |      |       |           |      |       |    | 2  |    |    | Vue Gainé   |
| Objet Centrale de mesure (En Fonction du CCTP) |     | 1      | RS485 | 0    | 0     | 0    | 0     | 0         | 0    | 0     | 0  | 28 | 0  | 12 | Voir détail |
| Défaut spécifique (En Fonction du CCTP)        |     | X      |       | X    |       |      |       | X         |      |       |    |    |    |    | Vue Gainé   |

| TDHQ02-LT1 1/2                                 |     | LIASON |       | API  |       |      |      | SCADA API |     |      |    |    |    |    |             |
|------------------------------------------------|-----|--------|-------|------|-------|------|------|-----------|-----|------|----|----|----|----|-------------|
| Libellé                                        | TAG | flaire | QOM   | ETOR | EVANA | STOR | SAVA | TA        | WFO | Apel | TS | TM | TC | TR | Commentaire |
| <b>TDO</b>                                     |     | 6      | 1     | 4    | 0     | 0    | 0    | 2         | 0   | 1    | 2  | 29 | 0  | 12 |             |
| Position inverseur Général                     |     | 1      |       | 2    |       |      |      |           |     |      | 2  |    |    |    | Vue Gaine   |
| Défaut inverseur general                       |     | 1      |       | 1    |       |      |      | 1         |     |      |    |    |    |    | Vue Gaine   |
| Présence/Manque tension                        |     | 1      |       | 1    |       |      |      |           |     |      | 1  |    |    |    | Vue Gaine   |
| Déclenchement parafoudre                       |     | 1      |       | 1    |       |      |      |           |     |      | 1  |    |    |    | Vue Gaine   |
| Défaut de synthèse disjoncteurs départs        |     | 1      |       | 1    |       |      |      | 1         |     | 1    |    |    |    |    | Vue Gaine   |
| Compteur kwh                                   |     |        | 1     |      |       |      |      |           |     |      |    | 1  |    |    | Vue Gaine   |
| Objet Centrale de mesure (En Fonction du CCTP) |     | 1      | RS485 | 0    | 0     | 0    | 0    | 0         | 0   | 0    | 0  | 28 | 0  | 12 | Voir détail |
| Défaut spécifique (En Fonction du CCTP)        |     | X      |       | X    |       |      |      | X         |     |      |    |    |    |    | Vue Gaine   |

| TDHQ02-LT1 2/2                                 |     | LIASON |       | API  |      |      |      | SCADA API |      |       |    |    |    |    |             |
|------------------------------------------------|-----|--------|-------|------|------|------|------|-----------|------|-------|----|----|----|----|-------------|
| Libellé                                        | TAG | liaire | COM   | ETOR | IANA | STOR | IANA | TA        | MAFO | Appel | TS | TM | TC | TR | Commentaire |
| <b>TDO</b>                                     |     | 5      | 1     | 4    | 0    | 0    | 0    | 2         | 0    | 1     | 2  | 28 | 0  | 12 |             |
| Position inverseur Général                     |     | 1      |       | 2    |      |      |      |           |      |       | 2  |    |    |    | Vue Gainé   |
| Défaut inverseur general                       |     | 1      |       | 1    |      |      |      | 1         |      |       |    |    |    |    | Vue Gainé   |
| Présence/Manque tension                        |     | 1      |       | 1    |      |      |      |           |      |       | 1  |    |    |    | Vue Gainé   |
| Déclenchement parafoudre                       |     | 1      |       | 1    |      |      |      |           |      |       | 1  |    |    |    | Vue Gainé   |
| Défaut de synthèse disjoncteurs départs        |     | 1      |       | 1    |      |      |      | 1         |      | 1     |    |    |    |    | Vue Gainé   |
| Compteur kwh                                   |     |        | 1     |      |      |      |      |           |      |       |    | 1  |    |    | Vue Gainé   |
| Objet Centrale de mesure (En Fonction du CCTP) |     | 1      | RS485 | 0    | 0    | 0    | 0    | 0         | 0    | 0     | 0  | 28 | 0  | 12 | Voir détail |
| Défaut spécifique (En Fonction du CCTP)        |     | X      |       | X    |      |      |      | X         |      |       |    |    |    |    | Vue Gainé   |

| TDHQ02-LT2 1/2                                 |     | LIASON |       | API  |       |      |      | SCADA API |     |      |    |    |    |    |             |
|------------------------------------------------|-----|--------|-------|------|-------|------|------|-----------|-----|------|----|----|----|----|-------------|
| Libellé                                        | TAG | Alaire | COM   | ETOR | ANANA | STOR | SANA | TA        | WFO | ypel | TS | TM | TC | TR | Commentaire |
| <b>TDO</b>                                     |     | 5      | 1     | 4    | 0     | 0    | 0    | 2         | 0   | 1    | 2  | 29 | 0  | 12 |             |
| Position inverseur Général                     |     | 1      |       | 2    |       |      |      |           |     |      | 2  |    |    |    | Vue Gaine   |
| Défaut inverseur general                       |     | 1      |       | 1    |       |      |      | 1         |     |      |    |    |    |    | Vue Gaine   |
| Présence/Manque tension                        |     | 1      |       | 1    |       |      |      |           |     |      | 1  |    |    |    | Vue Gaine   |
| Déclenchement parafoudre                       |     | 1      |       | 1    |       |      |      |           |     |      | 1  |    |    |    | Vue Gaine   |
| Défaut de synthèse disjoncteurs départs        |     | 1      |       | 1    |       |      |      | 1         |     | 1    |    |    |    |    | Vue Gaine   |
| Compteur kwh                                   |     |        | 1     |      |       |      |      |           |     |      |    | 1  |    |    | Vue Gaine   |
| Objet Centrale de mesure (En Fonction du CCTP) |     | 1      | RS485 | 0    | 0     | 0    | 0    | 0         | 0   | 0    | 0  | 28 | 0  | 12 | Voir détail |
| Défaut spécifique (En Fonction du CCTP)        |     | X      |       | X    |       |      |      | X         |     |      |    |    |    |    | Vue Gaine   |

| TDHQ02-LT2 2/2                                 |     | LIASON  |       | API  |      |      |      | SCADA API |       |       |    |    |    |    |             |
|------------------------------------------------|-----|---------|-------|------|------|------|------|-----------|-------|-------|----|----|----|----|-------------|
| Libellé                                        | TAG | filaire | COM   | ETOR | ENVA | STOR | SANA | TA        | NF/MG | Appel | TS | TM | TC | TR | Commentaire |
| <b>TDO</b>                                     |     | 0       | 1     | 4    | 0    | 0    | 0    | 2         | 0     | 1     | 2  | 29 | 0  | 12 |             |
| Position inverseur Général                     |     | 1       |       | 2    |      |      |      |           |       |       | 2  |    |    |    | Vue Gainé   |
| Défaut inverseur general                       |     | 1       |       |      |      |      |      | 1         |       |       |    |    |    |    | Vue Gainé   |
| Présence/Manque tension                        |     | 1       |       | 1    |      |      |      |           |       | 1     |    |    |    |    | Vue Gainé   |
| Déclenchement parafoudre                       |     | 1       |       | 1    |      |      |      |           |       | 1     |    |    |    |    | Vue Gainé   |
| Défaut de synthèse disjoncteurs départs        |     | 1       |       | 1    |      |      |      | 1         |       | 1     |    |    |    |    | Vue Gainé   |
| Compteur kwh                                   |     |         | 1     |      |      |      |      |           |       |       |    | 1  |    |    | Vue Gainé   |
| Objet Centrale de mesure (En Fonction du CCTP) |     | 1       | RS485 | 0    | 0    | 0    | 0    | 0         | 0     | 0     | 0  | 28 | 0  | 12 | Voir détail |
| Défaut spécifique (En Fonction du CCTP)        |     | X       |       | X    |      |      |      | X         |       |       |    |    |    |    | Vue Gainé   |

| TD03-DETENTE DIRECTE       |     | LIASON |     | API  |      |      |      | SCADA API |       |       |    |    |    |    |             |
|----------------------------|-----|--------|-----|------|------|------|------|-----------|-------|-------|----|----|----|----|-------------|
| Libellé                    | TAG | filare | COM | ETOR | EANA | STOR | SANA | TA        | INFNO | Apopt | TS | TM | TC | TR | Commentaire |
| TD CVC                     |     | 5      | 1   | 5    | 0    | 0    | 0    | 2         | 0     | 1     | 3  | 28 | 0  | 12 |             |
| Position inverseur Général |     | 1      |     | 2    |      |      |      |           |       |       | 2  |    |    |    |             |
| Défaut inverseur général   |     | 1      |     |      |      |      |      | 1         |       |       |    |    |    |    |             |

|                                                                           |  |  |   |       |   |   |   |   |   |   |   |   |    |   |    |             |  |
|---------------------------------------------------------------------------|--|--|---|-------|---|---|---|---|---|---|---|---|----|---|----|-------------|--|
| Déclenchement parafoudre                                                  |  |  | 1 |       | 1 |   |   |   |   |   |   | 1 |    |   |    |             |  |
| Défaut de synthèse disjoncteurs                                           |  |  | x |       | 1 |   |   |   | 1 |   | 1 |   |    |   |    |             |  |
| 10 réserves pour des défauts disjonction sur le TD ( <b>A compléter</b> ) |  |  | x |       | x |   |   |   | x |   |   |   |    |   |    |             |  |
|                                                                           |  |  |   |       |   |   |   |   |   |   |   |   |    |   |    |             |  |
| Centrale de mesure generale                                               |  |  | 1 | RS485 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 0 | 12 | Voir détail |  |

  

| TD03-Ventilation                                                          |     | LIASON   |          | API      |          |          |          | SCADA API |          |          |          |           |          |           | Commentaire |
|---------------------------------------------------------------------------|-----|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|-----------|----------|-----------|-------------|
| Libellé                                                                   | TAG | Rbare    | COM      | ETOR     | EANA     | STOR     | SANA     | TA        | NFNO     | Appel    | TS       | TMI       | TC       | TR        |             |
| <b>TD CVC</b>                                                             |     | <b>5</b> | <b>1</b> | <b>5</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>2</b>  | <b>0</b> | <b>1</b> | <b>3</b> | <b>28</b> | <b>0</b> | <b>12</b> |             |
| Position inverseur Général                                                |     | 1        |          | 2        |          |          |          |           |          |          | 2        |           |          |           |             |
| Défaut inverseur general                                                  |     | 1        |          | 1        |          |          |          | 1         |          |          |          |           |          |           |             |
| Déclenchement parafoudre                                                  |     | 1        |          | 1        |          |          |          |           |          | 1        |          |           |          |           |             |
| Défaut de synthèse disjoncteurs                                           |     | 1        |          | 1        |          |          |          | 1         |          | 1        |          |           |          |           |             |
| 10 réserves pour des défauts disjonction sur le TD ( <b>A compléter</b> ) |     | x        |          | x        |          |          |          | x         |          |          |          |           |          |           |             |
|                                                                           |     |          |          |          |          |          |          |           |          |          |          |           |          |           |             |
| Centrale de mesure generale                                               |     | 1        | RS485    | 0        | 0        | 0        | 0        | 0         | 0        | 0        | 0        | 28        | 0        | 12        | Voir détail |