Modbus-register W3

ModBus-register W3 applies to software after 0.76				
Input Status	**Discrete Input (1 bit)**	**Read only**		
Modbus	Name	Min/Max	Remarks	Default
0x0001	Not used			
0x0002	SA Emergency action	0/1		0
0x0003	EA Emergency action	0/1		0
0x0004	Not used			
0x0005	Economy mode	0/1	0=Unavailable, 1= Available	1
0x0006	Timer Function	0/1	0=Unavailable, 1= Available	1
0x0007	Not used			

ModBus-register W3 applies to software after 0.76				
Input Status	**Discrete Input (1 bit)**	**Read only**		
Modbus	Name	Min/Max	Remarks	Default
1x0001	Condensation	0/1		
1x0002	Relay state	0/1		
1x0003	Occupancy switch	0/1		
1x0004	Window switch	0/1		
1x0005	Motion	0/1		
1x0006	No of active alarms	0/1	Number of alarms	
1x0007	No Room Unit 1	0/1	ALARM, resets automatically	
1x0008	No Room Unit 2	0/1	ALARM, resets automatically	
1x0009	No Pressure sensor	0/1	ALARM, resets automatically	
1x0010	No Supply Flow sensor	0/1	ALARM, resets automatically	
1x0011	No Exhaust Flow sensor	0/1	ALARM, resets automatically	
1x0012	Room Unit 1 Temperature	0/1	ALARM, resets automatically	
1x0013	Room Unit 2 Temperature	0/1	ALARM, resets automatically	
1x0014	Regulator KTY short circuit	0/1	ALARM, resets automatically	
1x0015	Regulator KTY open circuit	0/1	ALARM, resets automatically	
1x0016	Room Unit Low Battery	0/1	ALARM, resets automatically	
1x0017	PI-controller overload	0/1	ALARM, resets automatically	
1x0018	Setpoint not reached	0/1	ALARM, resets automatically	
1x0019	Not used			
1x0020	Not used			
1x0021	No device list	0/1	ALARM, resets automatically	
1x0022	AC overload	0/1	ALARM, resets automatically	
1x0023	System fault	0/1	ALARM	
1x0024	No serial number	0/1	ALARM	
1x0025	Not used			
1x0026	Short circuit X11	0/1	ALARM, requires HW reset	
1x0027	Short circuit X12	0/1	ALARM, requires HW reset	
1x0028	Short circuit X13	0/1	ALARM, requires HW reset	
1x0029	Short circuit X14	0/1	ALARM, requires HW reset	
1x0030	SPI Flash broken	0/1	ALARM, requires HW reset	

ModBus-register W3 applies to software after 0.76				
Input Status	**Discrete Input (1 bit)**	**Read only**		
Modbus	Name	Min/Max	Remarks	Default
1x0031	Radio chip broken	0/1	ALARM, requires HW reset	
1x0032	Parameter file revision	0/1	ALARM, requires HW reset	
1x0033	Parameter file format	0/1	ALARM, requires HW reset	
1x0034	No ModBus ID	0/1	ALARM, requires HW reset	
1x0035	No Application	0/1	ALARM, requires HW reset	
1x0036	No parameters	0/1	ALARM, requires HW reset	
1x0037	Parameter missing	0/1	ALARM, requires HW reset	
1x0038	Parameter value error	0/1	ALARM, requires HW reset	
1x0039	Parameter file size	0/1	ALARM, requires HW reset	
1x0040	Wrong parameter file	0/1	ALARM, requires HW reset	
1x0041	Check Duct Group SM	0/1	ALARM, resets after right parameters	
1x0042	Check Duct Group DC	0/1	ALARM, resets after right parameters	
1x0043	Previous parameters are lost	0/1	ALARM, requires HW reset	
1x0044	Factory parameters take up	0/1	ALARM, requires HW reset	
1x0045	Not used			
1x0046	Not used			
1x0047	No supply pressure from AHU	0/1	ALARM, resets automatically	
1x0048	No exhaust pressure from AHU	0/1	ALARM, resets automatically	
1x0049	Supply duct 100% open	0/1	ALARM, resets automatically	
1x0050	Exhaust duct 100% open	0/1	ALARM, resets automatically	
1x0051	Low voltage detect	0/1	ALARM, resets automatically	
1x0052	Not used			
1x0053	Duct group member missing	0/1	ALARM, resets automatically	
1x0054	Negative pressure	0/1	ALARM, resets automatically	

ModBus-register W3 applies to software after 0.76				
Holding register	**16 bit integer register**	**R/W**		
Modbus	Name	Min/Max	Remarks	Default
4x0001	Relay in Emergency	0/1	0=Close, 1=Open, 2=No Action	1
4x0002	Application transition	1/8	Read Only: 2=Auto Economy, 3=Auto boost, 5=Timer-function Read/Write 1=Auto Normal, 4=Manual, 6=Stand-by, 7=Emergency, 8=Night Cool	
4x0003	Room number		Value can be 0-32000	0
4x0004	Valve exercise	0/72	Valve exercise 0=Not used (hours)	48
4x0005	Motion Timer	0/20	Motion timer (minutes)	20
4x0006	General warning time	0/60	Warning delay, general (minutes)	60
4x0007	PI-overload warning time	0/60	Warning delay, PI-overload (minutes)	120
4x0008	Set-point warning time	0/60	Warning delay, Set point (minutes)	60
4x0009	Not used	0/60	Warning delay, pressure sensor (minutes)	15
4x0010	Not used			
4x0011	Not used			
4x0012	Not used			
4x0013	Not used			
4x0014	System type	1/4	1= Heat, 2= Cool, 3= Change Over, 4=Heat+Cool	4
4x0015	Number of Room units	1/2	1=One room unit, 2= Two room units	1
4x0016	Window switch	0/2	0=Not used 1=Normaly Closed 2=Normaly Open	0
4x0017	Occupancy switch	0/2	0=Not used 1=Normaly Closed 2=Normaly Open	1
4x0018	Actuator Type Cool	1/3	ActuatorCool 1=NC,2=0-10V,3=NO	1
4x0019	Actuator Type Heat	1/3	ActuatorHeat 1=NC,2=0-10V,3=NO	1
4x0020	Not used			
4x0021	Not used			
4x0022	Not used			
4x0023	Frost guard temp.	5/15		10
4x0024	TC1 Normal	15/30	(degC)	23
4x0025	TH1 Normal	15/30	(degC)	21
4x0026	TC2 Economy	10/30	(degC)	25
4x0027	TH2 Economy	10/30	(degC)	19
4x0028	Night cool temp set point	10/20		15
4x0029	Room unit's min set point	0/20	only when room unit is manual state (degC)	16
4x0030	Room unit's max set point	25/50	only when room unit is manual state (degC)	28
4x0031	Room unit's min air flow	5/50	only when room unit is manual state (%)	10
4x0032	Room unit's max air flow	50/100	only when room unit is manual state (%)	100
4x0033	Boost temp. positive hysteresis	1/10	Room temperature rise from defined setpoint, Auto Boost activated	2
4x0034	Boost temp. negative hysteresis	0/10	Room temperature fall from defined setpoint, Auto Boost activated	1
4x0035	RU back to auto state	0/1200	Time when room unit come back from manual state to auto	480
4x0036	Normal flow SA	0/100	(%)	50

ModBus-register W3 applies to software after 0.76				
Holding register	**16 bit integer register**	**R/W**		
Modbus	Name	Min/Max	Remarks	Default
4x0037	Normal flow EA	0/100	(%)	50
4x0038	Economy flow SA	0/100	(%)	20
4x0039	Economy flow EA	0/100	(%)	20
4x0040	Night cool flow SA	50/100	(%)	80
4x0041	Night cool flow EA	50/100	(%)	80
4x0042	Boost flow SA	0/100	(%)	90
4x0043	Boost flow EA	0/100	(%)	90
4x0044	Not used			
4x0045	Not used			
4x0046	Stand-by flow EA	0/100	(%)	10
4x0047	Stand-by flow EA	0/100	(%)	10
4x0048	P term Heat	10/10000	Scale 1:100	5000
4x0049	I term Heat	10/10000	Scale 1:100	10
4x0050	P term Cool	10/10000	Scale 1:100	5000
4x0051	I term Cool	10/10000	Scale 1:100	10
4x0052	P term Change over	10/10000	Scale 1:100	5000
4x0053	I term Change over	10/10000	Scale 1:100	50
4x0054	SA 0% value	0/5000		0
4x0055	SA 100% value	5000/10000		10000
4x0056	EA 0% value	0/5000		0
4x0057	EA 100% value	5000/10000		10000
4x0058	Not used			
4x0059	Not used			
4x0060	Not used			
4x0061	Not used			
4x0062	Not used			
4x0063	Manual Temp	0-50	(degC) Only used in Manual state	
4x0064	Manual SA flow	0/100	(%) Only used in Manual state	
4x0065	Manual EA flow	0/100	(%) Only used in Manual state	
4x0066	Not used			
4x0067	Not used			
4x0068	Not used			
4x0069	Copy of Coil Status 1-16	0/65535	"Bit0=0x0001 Bit1=0x0002 Bit2=0x0003 Bit3=0x0004 Bit4=0x0005 … Bit15=0x0016"	

ModBus-register W3 applies to software after 0.76				
Input register	**16 bit integer register**	**Read only**		
Modbus	Name	Min/Max	Remarks	Default
3x0001	Component Name ID	0/10	ID for type of controller in Conductor and Wise system	
3x0002 - 0017	Component Name	0/999	Name built of max 16 chr, exch chr (ASCII standard)	
3x0018	Applacation ID			
3x0019	HW Serial No.			
3x0020	SW version			
3x0021	Not used			
3x0022	Application state	0/8	0=Init, 1=Auto Normal, 2=Auto Economy, 3=AutoBoost, 4=Manual, 5=TimerFunction, 6=Stand-by, 7=Emergency, 8=NightCool	
3x0023	Not used			
3x0024	Not used			
3x0025	Time since last boot (Year)			
3x0026	Time since last boot (Hours)	0/8760	After 8760h Year is updated	
3x0027	Time since last boot (Minutes)	0/60	After 60min Hour is updated	
3x0028	Temp sensor regulator		Cels. Scaling 1:10	
3x0029	Temp sensor RU1		Cels. Scaling 1:10	
3x0030	Temp sensor RU2		Cels. Scaling 1:10	
3x0031	Temp set point RU		Setpoint in regulator form parameter or Room Unit	
3x0032	Flow set point RU			
3x0033	Battery level RU		Volts. Scaling 1:10	
3x0034	Not used			
3x0035	Not used			
3x0036	Not used			
3x0037	Input Analog 1	0/10000	(mV)	
3x0038	Input Analog 2	0/10000	(mV)	
3x0039	Input Analog 3	0/10000	(mV)	
3x0040	Input Analog 4	0/10000	(mV)	
3x0041	Output PWM 1	0/100	(%)	
3x0042	Output PWM 2	0/100	(%)	
3x0043	Output PWM 3	0/100	(%)	
3x0044	Output PWM 4	0/100	(%)	
3x0045	Output Analog 1	0/10000	(mV)	
3x0046	Output Analog 2	0/10000	(mV)	
3x0047	Output Analog 3	0/10000	(mV)	
3x0048	Output Analog 4	0/10000	(mV)	
3x0049	PID Water Out	-100/100	(%)	
3x0050	PID ChangeOver Out	-100/100	(%)	
3x0051	Not used			
3x0052	Not used			
3x0053	Cool Water	0/100	(%)	
3x0054	Warm Water	0/100	(%)	
3x0055	SA Damper pos.	0/100	(%)	
3x0056	EA Damper pos	0/100	(%)	

ModBus-register W3 applies to software before 0.76				
Input register	**16 bit integer register**	**Read only**		
Modbus	Name	Min/Max	Remarks	Default
3x0057	Not used			
3x0058	Not used			
3x0059	Not used			
3x0060	Room temp		(degC)	
3x0061	Change over temp		(degC)	
3x0062	Not used			
3x0063	Copy of Input Status 1-16	0/65535	"Bit0=0x0001 Bit1=0x0002 Bit2=0x0003 Bit3=0x0004 Bit4=0x0005 … Bit15=0x0016"	
3x0064	Copy of Input Status 17-32	0/65535	"Bit0=0x0017 Bit1=0x0018 … Bit15=0x0032"	
3x0065	Copy of Input Status 33-48	0/65535	"Bit0=0x0033 Bit1=0x0034 .. Bit15=0x0048"	
3x0066	Copy of Input Status 49-64	0/65535	"Bit0=0x0049 Bit1=0x0050 .. Bit15=0x0064"	
3x0064	Copy of Input Status 17-32	0/65535	”Bit0=0x0017 Bit1=0x0018 … Bit15=0x0032”	
3x0065	Copy of Input Status 33-48	0/65535	”Bit0=0x0033 Bit1=0x0034 .. Bit15=0x0048”	
3x0066	Copy of Input Status 49-64	0/65535	”Bit0=0x0049 Bit1=0x0050 .. Bit15=0x0064”	