Modbus-register W1

The information listed below applies when the CONDUCTOR W1 is connected to a so-called Mod-Bus system.

ModBus-register W1 applies to software after 076				
Input Status	Discrete Input (1 bit)	**Read only**		
Modbus	Name	Min/Max	Remarks	Default
0x0001	Not used			
0x0002	Not used			
0x0003	Not used			
0x0004	Not used			
0x0005	Economy mode	0/1	0=Unavailable, 1= Available	1
0x0006	Not used			
0x0007	Not used			

ModBus-register W1 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 active alarms	0/1	ALARM INFO	
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			

ModBus-register W1 applies to software after 0.76				
Holding register	**16 bit integer register**	**R/W**		
Modbus	Name	Min/Max	Remarks	Default
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	
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 W1 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	
4x0002	Application transition	1/8	1=Normal, 3=Manual, 4=Stand-by, 5=Emergency, 6=NightCool	
4x0003	Room number			
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			
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	0
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		20
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	Not used			
4x0032	Not used			
4x0033	Not used			
4x0034	Not used			
4x0035	RU back to auto state	0/1200	Time when room unit come back from manual state to auto	480
4x0036	Not used			

ModBus-register W1 applies to software after 0.76				
Input register	**16 bit integer register**	**Read only**		
Modbus	Name	Min/Max	Remarks	Default
4x0037	Not used			
4x0038	Not used			
4x0039	Not used			
4x0040	Not used			
4x0041	Not used			
4x0042	Not used			
4x0043	Not used			
4x0044	Not used			
4x0045	Not used			
4x0046	Not used			
4x0047	Not used			
4x0048	P term Heat	10/10000	Scale 1:100	3500
4x0049	I term Heat	10/10000	Scale 1:100	10
4x0050	P term Cool	10/10000	Scale 1:100	3500
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	Not used			
4x0055	Not used			
4x0056	Not used			
4x0057	Not used			
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	Not used			
4x0065	Not used			
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 W1 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	00003
3x0002 - 0017	Component Name	0/999	Name built of max 16 chr, exch chr (ASCII standard)	0
3x0018	Application 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=Manual, 4=Stand-by, 5=Emengency, 6=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	Not used			
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	Not used			
3x0056	Not used			

ModBus-register W1 applies to software after 0.76				
Coil Status	**Discrete Output (1 bit)**	**R/W**		
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"	