

RS-485 Interface

Galvanic isolation	NO
Indication of data traffic	YES
Overvoltage protection	YES, Max. 24 V
Terminating resistor	Built-in attachable 120 Ω

Installation

1. Attach DIN rail holder using screws to the back side of the module.
2. Configure communication parameters using DIP switches.
3. Clip-on the module onto DIN rail.
4. Connect grounding using tooth washer and screw.
5. Connect temperature sensors to the RJ45 connector.
6. Connect RS-485 communication line using pluggable screw terminal (green).
7. Connect power supply using pluggable screw terminal (orange).

Operating and storage conditions

Storage temperature	-25 °C - +75 °C
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Construction	Aluminium box
Storage humidity	10 % - 95 %, non-condensing, non-aggressive
Operating humidity	10 % - 95 %, non-condensing, non-aggressive
Installation	DIN rail - 35 mm (EN 50022)
Protection	IP 20
Power/RS485 connect	Pluggable screw terminals
Sensor connection	RJ-45
Terminal min. -max wire gauge	Max. 2.5 mm²
Dimensions	72 x 91 x 22 mm (w x h x d)
Weight	110 g

Selection of Modbus registers

Register address	R/W	Data type	Description	Bit	
1	R	INT	Measured temperatures T = reg_val / 100 In two's complement, negative temp. values are signed integer (16 bit)	CH1	
2	R	INT		CH2	
3	R	INT		CH3	
4	R	INT		CH4	
5	R	INT		CH5	
6	R	INT		CH6	
7	R	INT		CH7	
8	R	INT		CH8	
9	R	Bit field	A bitmask determining validity of the temp. value	CH1	0
				CH2	1
				CH3	2
				CH4	3
				CH5	4
				CH6	5
				CH7	6
				CH8	7
1010	R	INT	Interval of measurement	CH1	
1011	R	INT		CH2	
1012	R	INT		CH3	
1013	R	INT		CH4	
1014	R	INT		CH5	
1015	R	INT		CH6	
1016	R	INT		CH7	
1017	R/W	INT		CH8	