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DATA SHEET

TEU-M

Produal

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OUTDOOR TEMPERATURE TRANSMITTER TEU-M

TEU-M temperature transmitter is designed to detect outdoor temperature in HVAC applications.

The temperature is detected by a Pt1000 sensor element. The sensor element resistance information is converted to a 0...10 V signal. The temperature can also be read via Modbus. The temperature range can be chosen at the commissioning.

The transmitter settings can be changed by using the ML-SER commissioning tool. The tool can be used to make one point field calibration and to change the temperature output to controller output. Modbus parameters are also set by using the ML-SER tool.

The transmitter can be equipped with a display that has resolution of 0.1 °C.



Selecting the measuring range

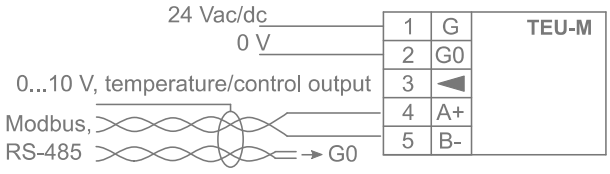
0...+50 °C	0…+100 °C	*-50…+50 °C	-50…+150 °C
S1 S2	S1 S2	S1 S2	S1 S2

* = Factory setting

Output signal

0…50	0…100	-50…50	-50…150	Signal
0 °C	0 °C	-50 °C	-50 °C	0 V
25 °C	50 °C	0 °C	50 °C	5 V
50 °C	100 °C	50 °C	150 °C	10 V

Wiring



Technical data

Supply	24 Vac/dc (22...30 V) < 1 VA	
Sensor element	Pt1000 EN60751/B	
Ranges	0...50 °C	0...100 °C
	*-50…50 °C	-50…150 °C
Accuracy	±0.5 °C (at 0 °C)	
Output	0…10 Vdc, < 2 mA	
Communication	Modbus RTU (RS-485) 9.6*/19.2/38.4/56.0/57.6/ 76.8/115.2 kbit/s, 8 data bits, parity none*/odd/even	
Housing		
protection class	IP54 (cable gland downwards)	
cable gland	M16	
dimensions (w x h x d)	106 x 102 x 46 mm	
Ambient temperature	-30…60 °C	

* = Factory setting

Ordering guide:

Model	Product number	Description
TEU-M	117Z090	outdoor Modbus temperature transmitter
TEU-N V2	1170270	display cover for transmitters
ML-SER	1139010	transmitter commissioning tool

Products fulfil the requirements of directive 2004/108/EC and are in accordance with the standards EN61000-6-3 (Emission) and EN61000-6-2 (Immunity).

Information is subject to change without prior notice.