

PT1000 SENSOR IN ENCLOSURE

Item No.: 423.210, 423.303, 423.304



DESCRIPTION OF FUNCTION

The sensor measures the ambient temperature using a PT1000 measuring resistance. The sensor can be connected directly to an analog input of every meteocontrol data logger. The logger must be configured for resistance measurement.

To avoid deviations because of long cable length, a voltage converter (0 to 10 V), type PXT-11, should be used. The converter is connected to an analog input of the data logger. The logger must be configured for voltage measurement.

TECHNICAL DATA

PT1000 sensor in enclosure

Operating temperature:	-35 ... 90 °C
Protection class:	IP65
Dimensions (W x H x D):	50 mm x 65 mm x 45.5 mm
Sensor type:	PT1000
Connection terminal:	Screw-type, max. 1.5 mm ²

PT1000 signal converter 24 V DC

Item No.:	423.303
Inaccuracy:	< 1 % from the measuring range, without scaling
Linearity:	< 0,25 % full scale value
Temperature coefficient:	< 0,02 %/°C
Power consumption:	2 W
Displays:	Green LED – supply voltage Yellow LED – input signal 5 to 10 % of the maximum signal
Operating temperature:	-20 to 55 °C

PT1000 signal converter 230 V AC

Item No.:	423.304
Inaccuracy:	< 1 % from the measuring range, without scaling
Linearity:	< 0,25 % full scale value
Temperature coefficient:	< 0,02 %/°C
Power consumption:	3 W
Insulation for supply:	3,75 kV, 1 min
Displays:	Green LED – supply voltage Yellow LED – input signal 5 to 10 % of the maximum signal
Operating temperature:	-20 to 55 °C

TEMPERATURE MEASUREMENT

Output signal:	Electrical resistance, DIN EN 60751
Measuring range:	Characteristic curve compliant with DIN EN 60751
Current consumption:	< 1 mA

MEASUREMENT VALUES RECORDED

T_Ux*	Ambient temperature
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CONFIGURATION WHEN USING A SIGNAL CONVERTER

Type:	Voltage measurement
Gradient:	15
Offset:	-50
Abbreviation:	T_Ux*

PARTICULARITIES

*Abbreviation x is a placeholder for a consecutive number. If more than one sensor of a given type is installed, the numbering starts with 1. Otherwise, 0 is used.
