

PT1000 SENSOR WITH INTEGRATED CONVERTER

Item No.: 423.212



DESCRIPTION OF FUNCTIONS

The sensor measures the ambient temperature with a PT1000 resistance measurement. The temperature between -50 and 50 °C (default setting) is converted into voltage values between 0 and 10 V.

TECHNICAL DATA

Operating temperature:	-35 ... 70 °C (max. 85% rH short term condensation)
Supply voltage:	15 ... 24 V DC, or 24 V AC
Power consumption:	Typ. 0.4 W (24 V)
Output signal:	0 ... 10 V, min. load 5 kΩ
Connection terminal:	Removable plug-in terminal, max. 2.5 mm ²
Protection class:	IP65 according to EN 60529
Cable entry:	Flextherm M16, for wire $\varnothing = 3 \dots 7$ mm, removable
Enclosure:	Enclosure USE-S, PC, pure white
Pocket:	Stainless steel 1.4305 (V2A), $\varnothing = 6 \times 25$ mm
Dimensions (W x H x D):	57 mm x 69,5 mm x 40 mm
Dimensions incl. mounting bracket cover (W x H x D):	82 mm x 69,5 mm x 40 mm

TEMPERATURE MEASUREMENT

Output signal:	0 ... 10 V (configurable via jumper, min. load 5 kΩ)
Measuring range:	-50 ... 50 °C (default setting)
Accuracy	Typ. ± 0.5 K (typ. at 21 °C within default measuring range)

CONFIGURATION

Type:	Voltage measurement
Gradient:	10
Offset:	-50
Abbreviation:	T_Ux*

SPECIAL PROPERTIES

*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.
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