PRODUCT-VIEW

MODULE TEMPERATURE SENSOR

Especially for photovoltaic systems

The sensor (829) has been specially developed for measuring the module temperature of photovoltaic (PV) systems.

A Pt100 measuring resistor is used as measuring element, which is protected in a body made of seawater-resistant aluminium. An optimal heat conduction between body and measuring element is achieved by a special casting compound.

The temperature can be measured in a 4-wire circuit via the permanently connected cable. This and the shielded cable make the measurement less sensitive to external interference.

APPLICATIONS

· photovoltaic (PV) systems

Professional Line	MODULE TEMPERATURE SENSOR
Id-No.	00.08290.000030
Measuring range	-40...+105 °C
Accuracy	(0.3 + 0,005 · |T|)
Self-heating at 0 °C	< 0,5 K/mW
Measurement current (DC) at 25 °C	1,0 mA
Range of application	-40...+105 °C
Maximal permissible peak current at 25 °C	3,0 mA
Insulation resistance	> 10 MΩ
Measuring elements	Pt100 F 0.3 resp. DIN EN 60751
Dimensions	Cable length: 3000 mm · Body thickness: 10 mm · Body Ø: 39.5 mm
Protection class	IP 67
Weight	0,4 kg
Cable	Length 3 m, shielded, with bending radius = 41 mm · (approval UL/cUL UL-Style 20233)
Accessories (order separately)	PT100 Modbus Converter

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