

## Module Temperature Sensor



Optimal module temperature measurement for photovoltaic systems

The Sensor 829 has been specifically designed for precise measurement of module temperature in photovoltaic (PV) systems. A Pt100 measuring resistor is used as the sensing element, securely housed in a seawater-resistant aluminum casing. A special potting compound ensures optimal thermal conductivity between the casing and the sensing element. The temperature can be measured using a 4-wire configuration through the permanently attached cable. This design, along with the shielded cable, makes the measurement less susceptible to external interference.

- High precision in module temperature measurement
- Robust, seawater-resistant housing
- Optimal thermal conductivity through special potting compound
- Less susceptible to external interference due to shielded cable

### 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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