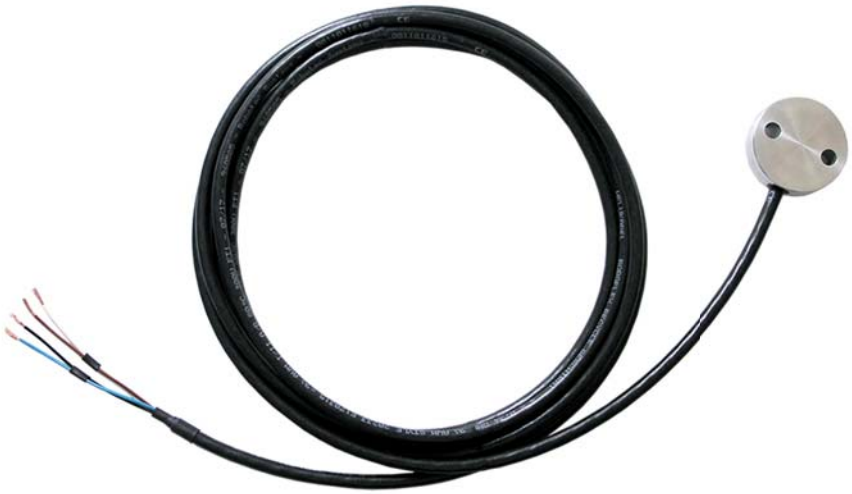
MODULE TEMPERATURE SENSOR

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.



photovoltaic (PV) systems

Standard Line	(829)	Module Temperature Sensor	Id.-No. 00.08290.000030
Measuring element:		Pt100 F 0.3 resp. DIN EN 60751	
Measuring range:		-40...+105 °C	
Accuracy:		(0.3 + 0,005 · |T|)	
Protection class:		IP 67	
Weight:		0.4 kg	
Electrical parameters:			
Measurement current (DC) at 25 °C:		1.0 mA	
Maximal permissible peak current at 25 °C:		3.0 mA	
Insulation resistance:		> 10 MΩ	
Self-heating at 0 °C:		< 0.5 K/mW	
Approx. dimensions:			
Cable length:		3000 mm	
Body thickness:		10 mm	
Body Ø:		39.5 mm	
Cable:		Length 3 m, shielded, with bending radius = 41 mm · (approval UL/cUL UL-Style 20233)	
Accessory: (please order separately)		PT100 Modbus Converter	**Id-No. 00.08790.000000**