

Sensor Box Professional and Professional Plus

Irradiation sensor specifically designed for large-scale PV plants

Sensors precisely record the deviations between the possible and the actual power production and provide important key figures in regard to the quality of the entire plant. An error message is generated when a deviation is detected. The irradiation sensor is the most important element of the Sensor Box Professional and Professional Plus. It provides a reference value for the amount of solar irradiation that can be used to to evaluate the potential power production. Power reductions are easier to analyze with the internal module temperature sensor. The sensor evaluation provides indications of the cause of the fault. Up to nine Sensor Boxes Professional and Professional Plus can be connected. It is possible to use the Sensor Boxes with their own RS485 inverters on the same bus the Solar-Log™.



Sensor Box Professional Plus



The Sensor Box Professional Plus also has the option to connect an ambient temperature sensor and window sensor.

Technical data Sensor Box Professional Plus

Article number	255896	220060
Warranty	2 years	
Ambient temperature sensor	-	•
Wind sensor	-	
Conformity	CE nach DIN EN-61000-6-1:2007 and DIN EN-61000-6-3:2007	
Connection cable	4 pole, 3 m (10 feet), weather and UV resistant (LiYC11Y (4 x 0,14) prolongable up to 50 m (0,14 mm²)	
Installation	Same orientation and pitch as the PV generator	
Irradiance	Irradiance : \pm 5 % (0 W/m2 to 1400 W/m²)	
Protocol	Solar-Log™, 9600 Baud, 8N1	
Communication Port	RS485	
Supply Current	Typical 80 mA	
Power supply	Via RS485 data cable from Solar-Log™, No additional power supply required	
Operating temperature	-20 °C to +70 °C	
Protection mode	IP65	
Housing	Powder-coated aluminum	
Solar cell, laminated inside glass Dimensions (w x h x d) in mm, weight	Mono crystalline silicon (5 cm x 3.3 cm) 145 x 85 x 40; 360 g	