

Component Solutions: SCP ITS irradiation and temperature sensor

The SCP ITS irradiation and temperature sensor offer a professional solution for PV system monitoring. The measurement of the solar irradiance can easily determine the PV system's expected yield and compare it to the actual output. The output signal is the current irradiation value in W/m^2 and the module temperature in $^{\circ}C$.

- ✓ Every Sensor is calibrated individually prior to shipment
- ✓ Connection of the sensors via a 2-wire RS485 Modbus RTU Protocol
- ✓ Manufactured in Germany and is certified according to ISO9001:2008 and ISO14001:2004
- ✓ Easy installation
- ✓ No loss of accuracy due to cable lengths



Product Information

Technical Data

Resolution	16 Bit
Measuring range irradiation	0 to 1500 W/m^2 +/- 5 %
Internal temperature sensor	PT1000
Measuring range temperature	-30 $^{\circ}C$ to +70 $^{\circ}C$, +/-1 $^{\circ}C$
Digital input	Frequency measurement up to 1 kHz, resolution 1 Hz
Supply voltage	9 to 36 V DC / 260 mW
Operating temperature range	-30 $^{\circ}C$ to 70 $^{\circ}C$
Operating humidity range	0 to 100 % RH
Communications interface	Modbus RTU, address 1 to 253 (delivery 2)
Connector Bus / supply	Input M8 4-pin, A-coded
Connection of external sensors	Socket M8 4-pin, A-coded (for option with y-manifold)
Housing material	Aluminium / PMMA Plexiglas
Protection rating	IP 65 according to DIN 40 050-9/5.93
Dimensions (L/W/H)	150 x 130 x 20 mm
Weight	550 g

Optional available

Ambient temperature sensor SCP ATS & wind sensor SCP WS