

PROFITEST | PV_{SUN}-SOR

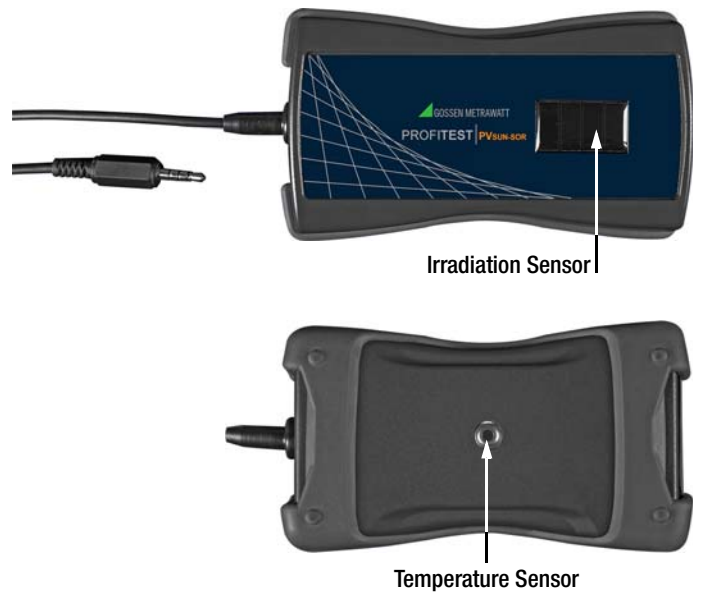
Sensor for Irradiation, Temperature and Inclination

Display via PROFITEST | PV_{SUN}

3-349-704-03
2/12.12

Useful accessory for PROFITEST PV_{SUN} with the following measuring functions:

- Solar irradiance (W/m²) on photovoltaic systems
- Contact-free temperature measurement
- Measurement of the inclination angle at photovoltaic modules



Application

Sensor for measuring the irradiation, temperature and inclination angle of photovoltaic systems per VDE 0126-23/EN 62446. The sensor is connected with the test instrument via the terminal located at the **PROFITEST PV_{SUN}** whereas the measured values are issued via the **PROFITEST PV_{SUN}** display.

Applicable Regulations and Standards

IEC 61010-1/EN 61010-1/ VDE 0411-1	Safety requirements for electrical equipment for measurement, control and laboratory use – General requirements
EN 60529 VDE 0470 Teil 1	Test instruments and test procedures Degrees of protection provided by enclosures (IP code)
DIN EN 61326-1 VDE 0843-20-1	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements

Order Information

Description	Type	Article Number
Sensor for irradiation, temperature and inclination for test instrument PROFITEST PV _{SUN}	PROFITEST PV _{SUN} SOR	Z360N

Characteristic Values

Irradiance

Measuring range	0 ... 2000 W/m ²
Cell	monocrystalline, approx. 27 x 16 mm
Resolution	1 W/m ²
Accuracy	±15% (T = 25 °C)

Temperature Measurement

Measuring range	-55 ... 99 °C
Resolution	1 °C
Accuracy	±1 °C

Inclination Angle

Measuring range	0 ... 90°
Resolution	0.1°
Accuracy	±1°

Display

via PROFITEST PV_{SUN}
Display refresh 1/s

Power Supply

via PROFITEST PV_{SUN} interface:
approx. 3.3 V/ approx. 3.1 mA

Mechanical Design

Dimensions	approx. 120 x 65 x 27 mm
Cable length	10 m
Weight	approx. 150 g

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Edited in Germany • Subject to change without notice • A PDF version is available on the Internet



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