

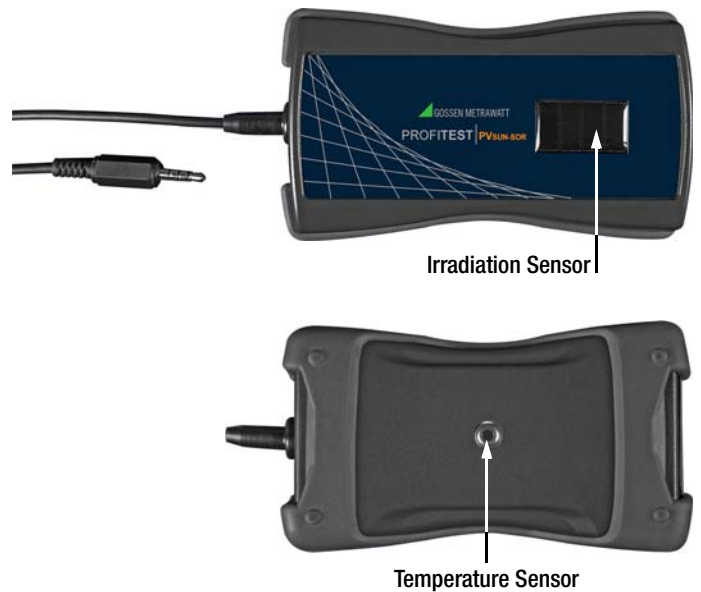
# PROFITEST | PVSUN-SOR

## Sensor for Irradiation, Temperature and Inclination Display via PROFITEST | PVSUN

3-349-704-03  
2/12.12

Useful accessory for PROFITEST PVSUN  
with the following measuring functions:

- Solar irradiance ( $\text{W/m}^2$ ) 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 PVSUN** whereas the measured values are issued via the **PROFITEST PVSUN** display.

### Characteristic Values

#### Irradiance

|                 |   |
|-----------------|---|
| Measuring range | 0 ... 2000 $\text{W/m}^2$                     |
| Cell            | monocrystalline, approx. 27 x 16 mm           |
| Resolution      | 1 $\text{W/m}^2$                              |
| Accuracy        | $\pm 15\%$ ( $T = 25\text{ }^\circ\text{C}$ ) |

#### Temperature Measurement

|                 |                                      |
|-----------------|--------------------------------------|
| Measuring range | $-55 \dots 99\text{ }^\circ\text{C}$ |
| Resolution      | 1 $^\circ\text{C}$                   |
| Accuracy        | $\pm 1\text{ }^\circ\text{C}$        |

#### Inclination Angle

|                 |                   |
|-----------------|-------------------|
| Measuring range | 0 ... 90 $^\circ$ |
| Resolution      | 0.1 $^\circ$      |
| Accuracy        | $\pm 1^\circ$     |

#### Display

via PROFITEST PVSUN  
Display refresh 1/s

#### Power Supply

via PROFITEST PVSUN interface:  
approx. 3.3 V/ approx. 3.1 mA

### Applicable Regulations and Standards

|                                       |  |
|---------------------------------------|--|
| IEC 61010-1/EN 61010-1/<br>VDE 0411-1 | Safety requirements for electrical equipment for measurement, control and laboratory use – General requirements    |
| EN 60529<br>VDE 0470 Teil 1           | Test instruments and test procedures<br>Degrees of protection provided by enclosures (IP code)                     |
| DIN EN 61326-1<br>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 PVSUN | PROFITEST PVSUNSOR | Z360N          |

#### Mechanical Design

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