Data sheet

# SOLAR SMS MASTER

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
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PV Solar String Monitoring System (PV Solar SMS)
The PV Solar String Monitoring System is a new device developed to monitor currents and voltage at string level inside a combiner box.
This new device is able to monitor up to 32 strings and to measure up to 50A per string.
It can be directly powered by the solar array while providing reliable information and data.
In order to have a flexible design that can fit any customer requirements, the Solar String Monitoring System (Solar SMS) has been developed as a modular system.
It consists of:

- The Master Module, that includes the power supply and communication infrastructure (RS-485) to coordinate data gathering from sensors.
- The Slave Modules, that collect current data with the usage of hall effect sensors. These modules can mount 8 or 12 sensors each with 25A and 50A sensors respectively.

Solar SMS

## General ordering data

| | |
|---|---|
| Version | Photovoltaics, Current monitoring, Voltage monitoring, 1500 V, Current monitoring, Voltage monitoring, Monitoring components |
| Order No. | 4000002958 |
| Type | SOLAR SMS MASTER |
| GTIN (EAN) | 8430243432313 |
| Qty. | 1 items |

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# Technical data

### Approvals

| | |
|---|---|
| Approvals | |
| ROHS | Conform |

### Dimensions and weights

| | | | |
|---|---|---|---|
| Depth | 189 mm | Depth (inches) | 7.4409 inch |
| Height | 92.7 mm | Height (inches) | 3.6496 inch |
| Width | 110.9 mm | Width (inches) | 4.3661 inch |
| Net weight | 525 g | | |

### Temperatures

| | | | |
|---|---|---|---|
| Operating temperature | | Continuous operating temp., min. | -25 °C |
| Continuous operating temp., max. | 70 °C | Humidity at operating temperature | 5...95 %, no condensation |

### Environmental Product Compliance

| | |
|---|---|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 7a, 7cI |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 9f0771a9-8aff-4670-ab97-f53e47dde174 |

### Technical data

| | | | |
|---|---|---|---|
| Number of digital inputs | 2 | Standards | ETSI EN 300 220-1 V3.1.1:2017, ETSI EN 300 220-2 V3.1.1:2017, ETSI EN 301 489-1 V2.2.3:2019, ETSI EN 301 489-3 V2.1.2:2021, EN 61326-1:2013, EN 62311:2020, EN 62109-1:2010 |
| Pollution severity | 2 | Communication | MODBUS RS485 RTU |
| Rated voltage | 1500 V DC | String-voltage measurement error | ± 7.5 V from 200 V DC to 1,500 V DC |
| Altitude | ≤ 2000 m | Maximum number of strings | 32 |

### Classifications

| | | | |
|---|---|---|---|
| ETIM 8.0 | EC002928 | ETIM 9.0 | EC002928 |
| ETIM 10.0 | EC002928 | ECLASS 14.0 | 22-57-02-92 |
| ECLASS 15.0 | 22-57-02-92 | | |

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## Drawings