

SOLAR SMS MASTER**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

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Germany

www.weidmueller.com

**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 pc(s).

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Technical data

Dimensions and weights

Depth	189 mm	Depth (inches)	7.441 inch
Height	92.7 mm	Height (inches)	3.65 inch
Width	110.9 mm	Width (inches)	4.366 inch
Net weight	34.611 g		

Temperatures

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

Technical data

Communication	MODBUS RS485 RTU	Height	≤ 2000 m
Maximum number of strings	32	Number of digital inputs	2
Pollution severity	2	Rated voltage	1500 V DC
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	String-voltage measurement error	± 7.5 V from 200 V DC to 1,500 V DC

Classifications

ETIM 6.0	EC002928	ETIM 7.0	EC002928
ETIM 8.0	EC002928	ETIM 9.0	EC002928
ECLASS 9.0	22-57-92-03	ECLASS 9.1	22-57-04-90
ECLASS 10.0	22-57-04-90	ECLASS 11.0	22-57-02-92
ECLASS 12.0	22-57-02-92	ECLASS 13.0	22-57-02-92
ECLASS 14.0	22-57-02-92		

Environmental Product Compliance

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

Approvals

Approvals



ROHS Conform

Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity Solar SMS
Engineering Data	CAD data – STEP
User Documentation	Solar SMS RS485 User manual
Catalogues	Catalogues in PDF-format

Creation date November 18, 2024 3:17:52 PM CET

Catalogue status 09.11.2024 / We reserve the right to make technical changes.

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Drawings

