

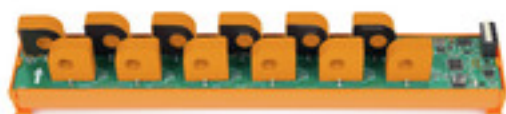
SOLAR SMS SLAVE 12IN50A**Weidmüller Interface GmbH & Co. KG**

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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, 12-channel, Current monitoring, Monitoring components, 24 V DC power supply
Order No.	4000003983
Type	SOLAR SMS SLAVE 12IN50A
GTIN (EAN)	8430243432399
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	259 mm	Depth (inches)	10.197 inch
Height	43.5 mm	Height (inches)	1.713 inch
Width	45 mm	Width (inches)	1.772 inch
Net weight	3.472 g		

Temperatures

Operating temperature	-25 °C...70 °C	Continuous operating temp., min.	-25 °C
Continuous operating temp., max.	70 °C		

Technical data

Communication	MODBUS RS485 RTU	Height	≤ 2000 m
Maximum current per string	50 A DC (-25...+70 °C)	Maximum number of strings	12
Maximum reading error	± 1% (of the full scale value)	Pollution severity	2
Rated voltage		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
Voltage supply	24 V DC 24 V DC supplied from SOLAR SMS MASTER or SOLAR SMS MASTER LORA	current measuring	Hall effect sensor

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

Environmental Product Compliance

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
User Documentation	Solar SMS RS485 User manual
Catalogues	Catalogues in PDF-format

Creation date July 2, 2024 9:44:33 PM CEST

Catalogue status 29.06.2024 / We reserve the right to make technical changes.