TRANSCLINIC 14I+

Weidmüller Interface GmbH & Co. KG
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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
Order No.	1238130000
Type	TRANSCLINIC 14I+
GTIN (EAN)	4050118044225
Qty.	1 pc(s).
Available until	2021-12-31

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Technical data

Dimensions and weights

Height	92.2 mm	Height (inches)	3.63 inch
Width	109.5 mm	Width (inches)	4.311 inch
Length	368.9 mm	Length (inches)	14.524 inch
Net weight	1,310 g		

Temperatures

Continuous operating temp., min.	-20 °C	Continuous operating temp., max.	70 °C

Technical data

Communication	MODBUS RS485 RTU	Digital inputs	0,5 V low, 15 ... 24 V high
Height	≤ 3000 m	Maximum current per string	20 A DC (-25...+70 °C)
Maximum number of strings	14	Measurement range	3...20 A DC
Number of digital inputs	2	Power consumption	< 1500 mW
Rated voltage	1000 V DC	String-current measurement error	± 260 mA from 3 A DC to 20 A DC
String-voltage measurement error	± 10 V from 100 V DC to 1000 V DC	Voltage supply	19 - 36 V DC
current measuring	Shunt resistance 1 mOhm		

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

Approvals

Approvals	CE
ROHS	Conform

Downloads

Approval/Certificate/Document of Conformity	TRANSCLINIC 14I+
Engineering Data	CAD data – STEP
User Documentation	Manual TC8i+_14i+
Catalogues	Catalogues in PDF-format

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Drawings



