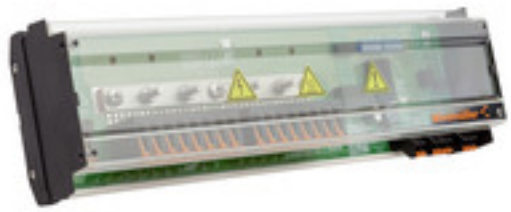
TRANSCLINIC 16I+ 1K5 H

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, 16-channel, 1500 V
Order No.	2502520000
Type	TRANSCLINIC 16I+ 1K5 H
GTIN (EAN)	4050118515978
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	368.9 mm	Depth (inches)	14.524 inch
Height	92.92 mm	Height (inches)	3.658 inch
Width	109.5 mm	Width (inches)	4.311 inch
Net weight	940 g		

Temperatures

Operating temperature	-25 °C...70

Technical data

Communication	MODBUS RS485 RTU	Height	≤ 2000 m
Maximum current per string	25 A DC (-25...+70 °C)	Maximum number of strings	16
Number of digital inputs	2	Pollution severity	2
Rated voltage	1500 V DC	Standards	IEC/ EN61010-1:2010, IEC/ EN61010-2-030:2010, EN61326-1:2013
String-current measurement error	± 300 mA from 3 A DC to 15 A DC	String-voltage measurement error	± 18 V from 150 V DC to 1,500 V
Supply current	< 70 mA DC, 200 mA DC max.	Voltage supply	19.2 – 28.8 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 16I+ 1K5 HP
Engineering Data	CAD data – STEP
User Documentation	Manual Transclinic 16i+ family
Catalogues	Catalogues in PDF-format

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Drawings

