STM-CP-485

STM-CP-485, Control module with 1500 VDC voltage measurement, positive terminal, RS-485 communications,

Code: E82CP1. **DESCATALOGADO**

Description

STM is smart analyser that supports up to 32 channels. Designed specifically to supervise photovoltaic strings, the STM allows for the maximum performance of the photovoltaic array thanks to its high measuring accuracy.
The solution consists of different modules:
STM-C: Smart module that is able to calculate powers, compare string performances, detect reverse currents, etc. It also features:

- One 1,500 VDC input
- Four voltage-free digital inputs
- One analogue input 0/4...20 mA
- One input for Pt100 or Pt1000
- A LoRa wireless communications module

STM-S: Current measurement module with 4 measurement channels of up to 42 A each. Up to 8 **STM-S** modules can be connected to obtain 32 channels.
Its modularity, flexibility of installation, smart characteristics and robustness make the **STM** the perfect piece of equipment to supervise the correct operation of the photovoltaic array.

Application

Supervision of photovoltaic strings in solar farms and self-consumption installations

STM-CP-485

Analyser for photovoltaic strings

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Specifications

DC power supply

Consumption	100 mA
Nominal voltage	24 Vdc ± 10 %

Environmental characteristics

Relative humidity (without condensation)	5 ... 95 %
Operating temperature	-20...+70°C (continuous) -20...+80°C (peak)

Mechanical characteristics

Fastening	DIN rail
Weight (kg)	0,21

Voltage measurement circuit

Nominal voltage	1500 Vdc

Input

Accuracy	± 3°C
Range	-25 ... 100°C
Resolution	±0,1 mA
Type	Pt100/1000

Standards

Electrical safety, Installation category	Category II Double-insulated electric shock protection class II

Analogue inputs

Nominal range	0/4...20 mA
Accuracy	±0,1 mA

Digital inputs

Quantity	4
Type	Optoisolated voltage-free
Maximum short-circuit current	6 mA

STM-SHUNT
Control module for PV measurement using a shunt

CODE	TYPE	Description
E82C00.	STM-C-485	Unit control module for monitoring photovoltaic installations with RS-485 communication.

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CODE	TYPE	Description
E82C10.	STM-C-LoRa	Unit control module for monitoring photovoltaic installations with LoRA communication.
E82S00.	STM-S	STM-S, Module with 4 measurement outputs
E83R020001000	KIT REP LoRa	LoRa Repeater communications kit, structure + base + anchors for mounting included
E83R020000000	KIT REP LoRa	LoRa Repeater communications kit, structure + base + anchors for mounting not included
Control module		
E82CP1.	STM-CP-485	Control module with 1500 VDC voltage measurement, positive terminal, RS-485 communications
E82CN1.	STM-CN-485	Control module with 1500 VDC voltage measurement, negative terminal, RS-485 communications
E82CP20010000	STM-CP-LoRa-F868	LoRa control module with positive current measurement, 868 MHz frequency
E82CP20020000	STM-CP-LoRa-F915	LoRa control module with positive current measurement, 915 MHz frequency
E82CN20010000	STM-CN-LoRa F868	LoRa control module with negative current measurement, 868 MHz frequency
E82CN20020000	STM-CN-LoRa F915	LoRa control module with negative current measurement, 915 MHz frequency
Current measurement module		
E82SN0.	STM-SN	Module for negative current measurement, 25 ADC
E82SP0.	STM-SP	Module for positive current measurement, 25 ADC
Protective cover		
E82SX0.	T-STM-S	Direct contact protective cover for STM-S
E82CX0.	T-STM-C	Direct contact protective cover for STM-C

The minimum configuration of the STM solution is made up of an STM-C module and an STM-S module

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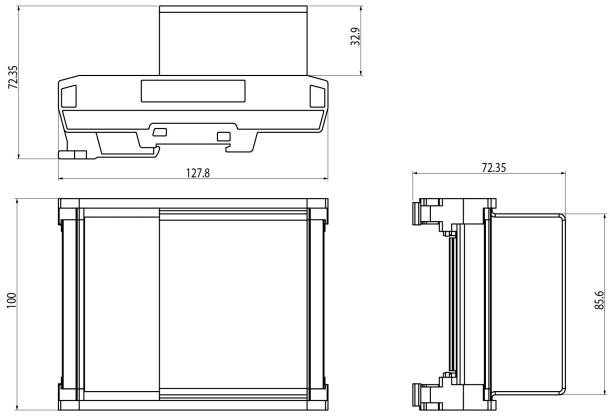
Dimensions



Connections