



STM-CN-LoRa F868

STM-CN-LoRa F868, LoRa control module with negative current measurement, 868 MHz frequency,

Code: E82CN20010000 **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



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Specifications

DC power supply

Consumption	100 mA
Nominal voltage	24 Vdc \pm 10 %

Environmental characteristics

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

Mechanical characteristics

Fastening	DIN rail
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Voltage measurement circuit

Nominal voltage	1500 Vdc
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Input

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

Standards

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

Nominal range	0/4...20 mA
Accuracy	\pm 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.
E82C10.	STM-C-LoRa	Unit control module for monitoring photovoltaic installations with LoRA communication.



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CODE	TYPE	Description
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

