# KIT REP LoRa

KIT REP LoRa, LoRa Repeater communications kit, structure + base + anchors for mounting not included,

Code: E83R020000000 **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


Creation date: 04/11/2026 - CIRCUTOR, SAU reserves the right to make technical changes or modify the content/images of this document without prior notice, in order to improve its reliability, functionality, design or for other reasons.
It accepts no liability for any errors, inaccuracies or possible lack of information in this document.

# KIT REP LoRa

Analyser for photovoltaic strings

Code: E83R020000000

## Specifications

**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. |
| 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


Creation date: 04/11/2026 - CIRCUTOR, SAU reserves the right to make technical changes or modify the content/images of this document without prior notice, in order to improve its reliability, functionality, design or for other reasons.
It accepts no liability for any errors, inaccuracies or possible lack of information in this document.

# KIT REP LoRa

Analyser for photovoltaic strings

Code: E83R020000000

## Connections

