



## Peripheral module for measurement of DC side quantities in PV plants

### General features

The DCM-PV module is installed upstream of the inverter to measure the DC quantities produced by the photovoltaic panels:

- DC current from PV strings (30 A max) \*\*
- DC voltage from PV strings (600 V max) \*\*
- DC power from PV strings (18 kW max)

DCM-PV is directly connected to the DC bus coming from PV strings by mean of terminal blocks (option: specific field connectors (i.e. MC4 type)).

DCM-PV is arranged in IP65 enclosure, with key door. It is powered directly by E2M-PV module, which is connected to via a RS485 bus over Modbus RTU protocol.

In case of multi-string inverters or plants with multiple inverters, it is necessary to install more than one DCM-PV module: the E2M-PV recording module can manage up to 6 distinct DCM-PV modules.

### Technical specifications

- 1 voltage DC channel (20-600 Vdc max) \*\*
- 1 current DC channel (50mA-20 Adc max) \*\*
- Accuracy: class 1
- Measure processing: average on 10 seconds intervals.
- Protocol: ModBus RTU.
- RS485 field bus terminal blocks with independent input and output blocks.
- Independent overvoltage suppressors for positive and negative DC rails from PV panels.
- Overvoltage suppressor independent for field bus.
- Supply voltage: 12 Vdc from E2M-PV module.
- Plastic enclosure IP65 30x35x20 cm, with door key and sealed cable glands.

\*\* On demand, models with different current and voltage range can be assembled.

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