



Metering module ZM8C-H with add-on ZM8C

Modules for high quality electrical data collection via Modbus/RTU

Application

Flexible metering for:

- active electrical loads and energies
- effective voltages and currents
- power factors
- frequency
- event based data acquisition mode with configurable filter for each channel
- in total 116 different parameters can be monitored in parallel

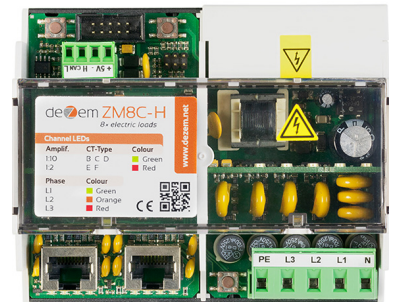
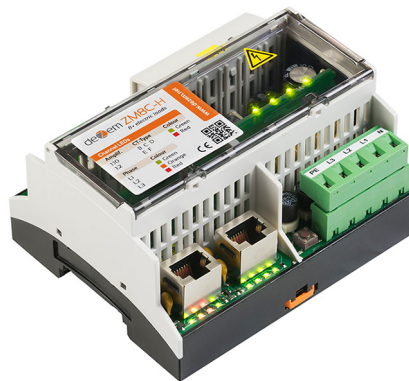
These data are made available via Modbus/RTU or an event-based RS485 mode.

Technology

The ZM8C-H is the main metering module. It provides 2x 4 inputs for current transformers via two RJ45 slots, as well as signal inputs for the line voltages. The ZM8C add-on module is identical, but does not include the line-voltage unit. One ZM8C-H supplies the voltage references for up to 20 ZM8C (powered by the external 5 VDC power supply). To this end, the modules are placed next to each other on a DIN rail, connected via the H-Bus inside the DIN rail. Thus, these modules together can process the above application data from up to 168 current transformers respectively.

Characteristics

- practical plug connection for ultra compact deZem current transformers of all sizes
- mounting on a standard DIN rail
- data exchange, power supply and transmission of data and analogue signals over H-Bus inside the DIN rail or via cable (10-pin slot)
- configuration via software tool or with two intuitive buttons with LED feedback
- wide range of input voltages



Technical data

supply voltage: 5 VDC
 current consumption: typ. 90 mA, max. 180 mA per unit
 dimensions ZM8C: (height x width x length) 90 x 55 x 61 mm, ZM8C-H: 90 x 108 x 61 mm
 operating temperature: -5 – 55°C (non-condensing)
 measurement tolerance of +/-1,0 %, corresponding to Class I of standard IEC 61557-12

Phys. interfaces

1x 16-pin H-Bus inside DIN rail
 1x 10-pin plug to connect additional ZM8C by cable
 1x screw-type terminal for RS485 (Modbus/RTU)
 1x screw-type terminal for 5 VDC

ZM8C-H only:

input voltages: L1 to N: 90–440 VAC/ 120–585 VDC, L2/L3 to N: 0–440 VAC/ 0–585 VDC
 power consumption L1/L2/L3 to N: max. 0.2 VA

Subject to technical modifications
 Version 1.2, July 2020

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