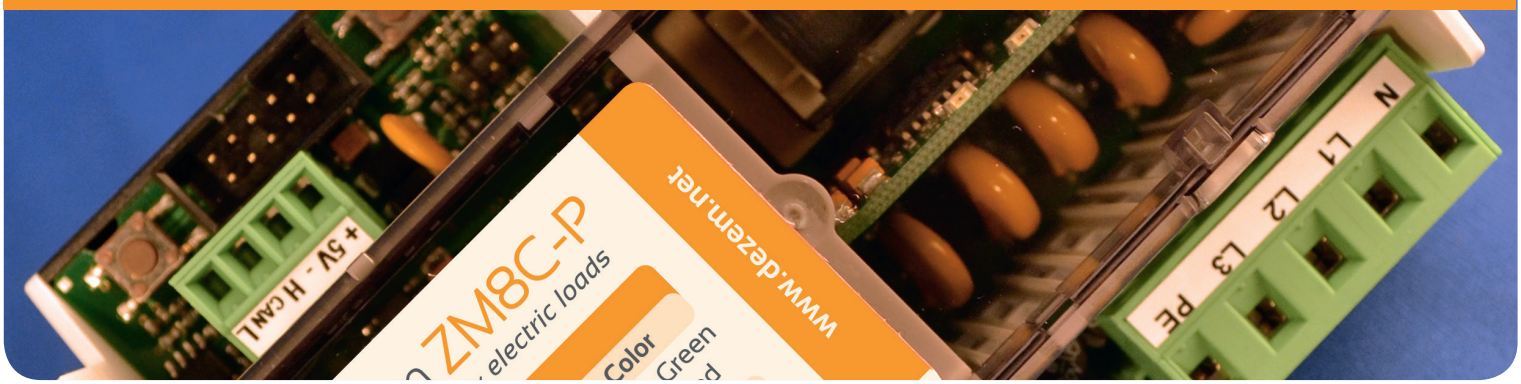


ZM8C-P/ZM8C
electrical measurement modules

subject to technical modifications
Rev. JA feb. 2017

ZM8C-P and ZM8C

Modules for high quality electrical data collection via Modbus/ RTU or CANopen

Application

Flexible low voltage energy 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

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

Technology

The ZM8C-P is the main module. It provides 2 x 4 inputs for current transformers via two RJ45 slots, as well as power supply and signal inputs for the line voltages. The ZM8C add-on module is identical, but does not include the power-supply and line-voltage unit. A ZM8C-P supplies power for up to 4 ZM8C, and the voltage references for up to 20 ZM8C (extra 5VDC power supply needed). 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 40 or 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

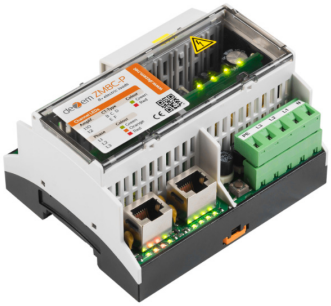
- supply voltage: via ZM8C-P or external 5 VDC
- current consumption: typ. 45 mA, max. 80 mA per unit
- dimensions ZM8C: (height x width x length) 90 x 55 x 61 mm, ZM8C-P: 90 x 108 x 61 mm
- operating temperature: -5 – 55°C (non-condensing)

phys. interfaces:

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

ZM8C-P only:

- input voltages: L1 to N: 90 – 265 VAC / 120 – 385 VDC, L2/L3 to N: 0 – 265 VAC / 0 – 385 VDC
- power consumption L1 to N: typ. 1.8 VA, max. 2.5 VA, when extended by 4 x ZM8C: max. 8 VA; L2/L3 to N: max. 0.2 VA



dezem
energy controlling

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