MCN-1

SINGLE-PHASE AC VOLTAGE AND CURRENT MEASURE INTERFACE

APPLICATION

» single-phase voltage and current measurement

FEATURES

» co-operation with remote monitoring system
» galvanic separation
» easy installation
» operation kept to a minimum
» small dimensions

COMMUNICATION

» RS-485 communication with MSU2 or MRS monitoring controller

CONSTRUCTION

The construction of module allows easy installation in device with DIN35 bus. Connections with other modules and measured signals are done using cut-off connectors.

DESCRIPTION

The MCN-1 Interface is adapted for co-operation with MSU-2 or MRS controller. It is used for monitoring power systems (low-voltage distribution boards, inverters, UPS, aggregates etc.) as single-phase load parameters measuring system output voltage and load current.

The load current value is measured by internal Current Transformer (CT).

MCN-1 module uses bidirectional RS-485 bus for communication with MASTER controllers.

Double RJ45 connector allows connecting other measuring modules.

The interface measures single-phase voltage and current RMS value.

Nominal supply voltage	12 VDC
Max current consumption (transmission)	300 mA
Max current consumption (collection)	25 mA
Number of measuring channels	1
Voltage measurement range	0 ÷ 265 VAC
Voltage measurement accuracy	1%
Current measurement range	0 ÷ 25 A
Current measurement accuracy	2%
Communication bus	RS-485 (full duplex)
Impedance bus	120Ω
RS-485 max length	100 m
RS-485 connector type	2 x RJ45
Ambient temperature	–20 ÷ +50ºC
Recommended relative humidity	90%
International Protection Rating	IP20
Case assured isolation	double
Isolation between circuits	basic
Connector type	5,08 mm connector
Dimensions (L x H x D)	95 x 78 x 32 mm
Weight	250 g

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