CVM-NET4+-ITF-MC-RS485-C4

CVM-NET4+-ITF-MC-RS485-C4, Power analyzer

Code: M55782.

> Protocol: Modbus/RTU
> Communications: RS-485
> Transistor output: 4
> Harmonics: 15
> Input current: .../250 mA
> Mounting: DIN rail

Description

CVM-NET4+ is a multi-channel power analyzer designed to measure balanced or unbalanced three-phase networks and to measure single-phase networks. Its versatile configuration options enable you to take measurements in single-phase systems, three-phase systems or a combination of both. It has a single three-phase voltage input combined with 12 single-phase channels to measure the current from the **MC efficient current transformers**.

Its main features include:

- Assembly on DIN rail
- Compact size (6 DIN rail modules)
- Measurement of up to 12 single-phase channels or combined single-phase and three-phase current channels.
- Current measurement using efficient **MC** series transformers (.../250 mA)
- RS-485 Communications (Modbus/RTU)
- 4 programmable digital outputs for alarms or impulses
- Compatible with **PowerStudio** /**PowerStudio Scada** / **PowerStudio Scada Deluxe**

Application

- Measurement of electrical parameters in multi-channel installations, such as data processing centres and switchboards of single-phase loads.
- Simultaneous measurement at 4 different points in three-phase installations
- Its compact size is perfect for assembly on electric panels.

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Multi-channel power analyzer for DIN rail - no display

Code: M55782.

Specifications

AC power supply

Installation category	CAT III 300 V
Consumption	6 VA
Frequency	50...60Hz
Nominal voltage	85...265 Vc.a.

DC power supply

Installation category	CAT III 300 V
Consumption	6 W
Nominal voltage	95...300 Vdc

Mechanical characteristics

Size (mm) width x height x depth	105 x 90 x 70 (mm)
Envelope	Self-extinguishing V0 plastic
Fastening	DIN rail 46227 (EN 50022)
Weight (kg)	0,234

Environmental characteristics

Protection class	IP 51 (Front), IP 31 (unmounted)
Relative humidity (without condensation)	5...95%
Working temperature	-10...+50 °C

Standards

Certifications	UL, VDE
Electrical safety, Maximum height (m)	2000
Electrical safety, Installation category	CAT III 300V / 520V, IEC 61010
Standards	IEC 664, VDE 0110, UL 94, IEC 801, IEC 348, IEC 571-1, EN 61000-6-3,EN 61000-6-1, EN 61010-1, EN 61000-4-11, EN 61000-4-3, EN 61000-4-3,EN 61000-4-4, EN 61000-4-5, EN 55011

Current measurement circuit

Installation category	CAT III 300 V
Nominal current (In)	.../250 mA
Phase current measuring range	0...250 mA
Permanent overload	1.3 In
Maximum input current consumption	0,18 VA x 4 channels
Maximum pulse current	In x 1.3
Minimum current measurement	3 mA

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Voltage measurement circuit

Installation category	CAT III 300 V
Input impedance	0.4 MΩ
Frequency measuring range	45 ... 65 Hz
Nominal voltage	300V Ph-N, 520V Ph-Ph
Maximum input voltage consumption	0,7 VA
Minimum measurement voltage (Vstart)	5 V~

Electrical safety

Insulation	Double-insulated electric shock protection class II (IEC 61010-1)

Digital transistor outputs

Pulse width	100 ms
Quantity	4
Type	NPN
Maximum frequency	5 imp / s
Maximum current	50 mA
Maximum voltage	24 Vdc

Measurement accuracy

Current measurement sensors	External transformers
Voltage measurement sensors	Direct voltage
Phase voltage measurement	0,50%

Serial communication

Protocol	ModBus/RTU
Technology / Type	RS-485

CVM-NET4+

Power analyzer, 4 analyzers in a single unit, DIN rail

CODE	TYPE	Input current	Transistor output	Communications	Protocol
M55782.	CVM-NET4+-ITF-MC-RS485-C4	.../250 mA	4	RS-485	Modbus/RTU

Requires the installation efficient transformers of the MC series. Not included in the price. Configurable, 4 three-phase channels to 12 single-phase channels

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Dimensions

Connections