

CVM-NET4+

Multi-channel power analyzer for DIN rail - no display



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** software.

Applications

- 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

Technical features

Power circuit	Rated voltage	85...265 Vac / 95...300 Vdc
	Power supply frequency	50...60 Hz
	Maximum consumption	2,9...6 V-A / 3...6 W
Measurement circuit	Rated voltage	300 Vac (Ph-N) / 520 Vdc (Ph-Ph)
	Frequency	45...65 Hz
	Nominal current	I_n .../250 mA
	Permanent overload	1,3 I_n
Accuracy class	Voltage, current	0,5 %
	Active Power	1 % (> 90 W)
	Active energy	1 % (class 1)
Communications	Network protocol	RS-485
	Communication protocol	Modbus/RTU
	Speed	9600 / 19200 / 38400 / 57600 bps
	Length	8
	Parity	No parity / odd / even
	Stop bits	1 / 2
Output transistors	Type: Isolated transistor	Open NPN collector
	Maximum operation voltage	24 Vdc
	Maximum operation current	50 mA
	Maximum frequency	5 imp/s
	Impulse duration	100 ms
Build features	Measurement module	Assembly on DIN 46277 rail (EN 50022)
	Number of modules	6
	Protection Degree	IP 31, Front panel IP 51
Environmental conditions	Working temperature	-10 ... +50 °C
	Humidity (non-condensing)	5 ... 95% (non-condensing)
	Maximum altitude	2000 m
Safety	IEC 61010 Double-insulated electric shock protection, class II	
Standards	IEC 664, VDE 0110, UL 94, IEC 801, IEC 348, IEC 571-1, IEC 61000-6-3, IEC 61000-6-1, IEC 61010-1, IEC 61000-4-11, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC-61000-4-5, EN 55011, CE	

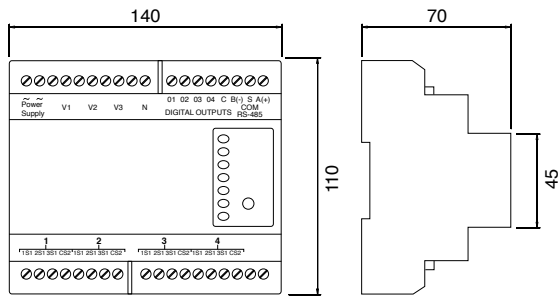
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References

Type	Code	Communications	Transformer
CVM-NET4+-MC-RS485-C4	M55782	RS-485 Modbus/RTU	.../250 mA (type MC)
CVM-NET4+-mV-RS485-C4	M557820000V00	RS-485 Modbus/RTU	.../ 333 mV

Dimensions



Connections

Combined three-phase and single-phase channel connections

