





CVM-NET-333-485-C2, Power analyzer

Code: M54B310000V00 CONSULTAR DISPONIBILIDAD

> Protocol: Modbus/RTU
> Communications: RS-485
> Transistor output: 2
> Input current: .../333 mV
> Mounting: DIN rail

### Description

**CVM NET** is a Power Analyzer for measuring balanced or unbalanced single and three-phase networks. It has been specifically designed for measuring up to 230 electrical parameters and for transmitting this data through the RS-485 communication bus with the Modbus/RTU protocol to the supervision SCADA.

Its main features are:

- o DIN rail format of only 3 modules
- Mounted on 72 x 72 mm panel, with adapter front panel (M5ZZF1)
- Measures the current with ... / 5 A and .../250 mA external transformers (MC model), .../333 mV
- o Possibility of measuring Medium and Low Voltage networks
- o RS-485 communication (Modbus RTU)
- o Compatible with PowerStudio / PSS / PSSDeluxe software
- o 2 programmable digital outputs
- Universal power supply (optional)
- Sealable

#### **Application**

- Control application on switchboards and low and medium voltage connection points, where an analyzer must be installed on a DIN rail due to space restrictions.
- o Alarm control. Maximum value, minimum value and programmable delay.
- o Control of active or reactive energy using the impulse output
- o Instantaneous data capture, maximum and minimum values of the electrical parameters measured.







Three-phase power analyzer, assembly on DIN rail - without display

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### Specifications

Consumption	3 VA
Frequency	50/60 Hz.
Nominal voltage	230 Vc.a.(-15+10%)
Mechanical characteristics	
Size (mm) width x height x depth	52.5 x 85 x 67.9 (mm)
Envelope	Self-extinguishing V0 plastic
Fastening	DIN rail 46227
Weight (kg)	0,17
Environmental characteristics	
Protection class	IP 51 (Front), IP 31 (unmounted)
Relative humidity (without condensation)	595%
Working temperature	-10+50 °C
itandards	
Certifications	CE, 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 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 55011
Current measurement circuit	
Nominal current (In)	In/0,333mV
Phase current measuring range	0,2120% / 2120%
Permanent overload	1.2 ln
Maximum input current consumption	0,75VA
/oltage measurement circuit	
Frequency measuring range	45 65 Hz
Nominal voltage	300V Ph-N, 520V Ph-Ph
Maximum input voltage consumption	0,7 VA
Electrical safety	
Insulation	Double-insulated electric shock protection class II (IEC 61010-1)



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#### Digital transistor outputs

Pulse width	100 ms
Quantity	2
Туре	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
Power factor measurement	0,51
Phase voltage measurement	0.5% ± 1 digit

#### Serial communication

Protocol	ModBus/RTU
Technology / Type	RS-485

The CVM-NET-MC units require the use of efficient transformers of the MC series, which are not included in the price.



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#### Connections Dimensions













