

CVM-1D-RS485-C

Code: M55511. DESCATALOGADO

> Power analyzer

> Protocol: Modbus/RTU> Communications: RS-485> Transistor output: 1> Class in power: 1

> Input current: 250 mA...32 A

Description

CVM-1D is a power analyzer for single-phase circuits up to 32 A. It features an LCD display with a rotating screen system, showing a total of 24 instantaneous, maximum and minimum, electrical variables. It has been designed in an enclosure with only 1 DIN module (18 mm). The compact size of the analyzer allows it to be installed on any electric panel. The unit has the Modbus/RTU (RS-485) protocol and is compatible with the **PowerStudio** energy management software.

Its main features are:

- Sealable
- Six-digit LCD display
- o RS-485 Modbus/RTU communication (depending on model)
- o Programmable alarm or impulse output
- o Measurement in four quadrants

Application

- Student residences / Hotels
- Marinas
- Shopping centres
- o Buildings with rented office space
- o Campgrounds
- o Domestic and industrial lines
- o Single-phase lines in general



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Single-phase power analyzer, DIN rail

Code: M55511.

Specifications

Caravarakira	2.1/4	
Consumption	2 VA	
Frequency	50/60 Hz.	
Nominal voltage	88276 Vc.a	
Mechanical characteristics		
Size (mm) width x height x depth	18 x 85.5 x 71.6 (mm)	
Envelope	Self-extinguishing UL94-V0 plastic	
Weight (kg)	0,08	
Environmental characteristics		
Protection class	IP 51 (Front), IP 31 (unmounted)	
Relative humidity (without condensation)	5 95%	
Storage temperature	-25 +70 °C	
Working temperature	-5+55 °C	
Current measurement circuit		
Nominal current (In)	5 A (min./max.: 0.25032 A)	
Reference current (Iref)	5 A	
Phase current measuring range	0.5120%	
Minimum current measurement	20 mA	
Transition current	500 mA	
Voltage measurement circuit		
Frequency measuring range	50/60 Hz(MID: 50 Hz)	
Nominal voltage	110230 Vac ± 20%	
Standards		
Electrical safety, Maximum height (m)	2000	
Electrical safety, Installation category	CAT III 300V, IEC 61010	
Electrical safety, Contamination level/class	Pollution resistance 2	
Standards	EN 50470-1, EN50470-3, EN62053-21, EN62053-23, EN61010-1, EN 61000-6-4, EN 55022 Integrated Energy Meter: Class B EN50470-3 in Active Energy, Class 2 EN62053-23 in Reactive Energy.	
Electrical safety		
Insulation	Double-insulated electric shock protection class II (IEC 61010-1)	







Single-phase power analyzer, DIN rail

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Pulse width	40200 ms (Programmable)
Туре	NPN
Maximum frequency	1000 imp / kWh
Maximum current	50 mA
Maximum voltage	42 Vdc

Measurement accuracy

Current measurement sensors	Direct measurement (integrated shunt <0.5 m Ω)	
Voltage measurement sensors	Direct measurement (integrated shunt <0.5 m Ω)	
Phase current measurement	0.5% ± 1 digit	
Active energy measurement (kWh)	1% ± 1 digit	
Active power measurement (kW)	1% ± 1 digit	
Power factor measurement	0,51	
Phase voltage measurement	0.5% ± 1 digit	

Serial communication

	50.405	
Technology / Type	RS-485	







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Dimensions



