CVM-1D-C

CVM-1D-C, Analyzer

Code: M55510. DESCATALOGADO

- > 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
- $\circ~$ RS-485 Modbus/RTU communication (depending on model)
- Programmable alarm or impulse output
- Measurement in four quadrants

Application

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

Circutor

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CVM-1D-C

Single-phase power analyzer, DIN rail

Code: M55510.

Specifications

Frequency 50/60 Hz. Nominal voltage 88.276 Vc.a Vechanical characteristics 88.255 x71.6 (nm) Size (nm) width x height x depth 18 x 85.5 x71.6 (nm) Envelope Self-extinguishing UL94-V0 plastic Weight (kg) 0.082 Envelope Self-extinguishing UL94-V0 plastic Protection class IP 51 (Front), IP 31 (unmounted) Relative humidity (withou condensation) 5.95% Storage temperature -25 +70 °C Variant temperature -5 +57 °C Storage temperature -5 +57 °C Storage temperature -5 + 20 °C Variant temperature -5 + 20 °C Nominal corrent (In) S A (min./ max: 0.250 32 A) Reference current (Iref) 5 A Phase current measuring range 0.5 120 % Variant unrent measuring range 0.5 120 % Nominal voltage 10 230 Vac ± 20 % Standards 10 230 Vac ± 20 % Standards 200 Electrical safety, Maximu height (m) 200 Electrical safety, Maximu height (m)	Consumption	2 VA
Nominal voltage B8276 Vc.a Wechanical characteristics Size (mm) width x height x depth 18 x 85.5 x 71.6 (mm) Envelope Self-extinguishing U.94-V0 plastic Weight (kg) 0.082 Envelope Self-extinguishing U.94-V0 plastic Weight (kg) 0.082 Envelope Self-extinguishing U.94-V0 plastic Envelope Self-extinguishing U.94-V0 plastic Weight (kg) 0.082 Envelope Self-extinguishing U.94-V0 plastic Envelope Self-extinguishing U.94-V0 plastic Envelope Self-extinguishing U.94-V0 plastic Envelope Self-extinguishing U.94-V0 plastic Reletive humdity (without condensation) S 95% Storage temperature -5 455 °C Envertent measurement circuit Self-extinguishing Current (kef) Nominal current (kef) S A (min./max: 0.25032 Å) Frequency measuring range Sol/60 Hz(MID: 50 Hz) Notage Minimu rurent measurement 200 mA Exterial safety, Maximum height (m) 2000 CAT III 300V, [CE 10101 Electrical safety, Installation category	•	50/60 Hz.
Size (mm) width x height x depth 18 x 85.5 x 71.6 (mm) Envelope Self-extinguishing UL94-V0 plastic Weight (kg) 0.082 Environmental characteristics IP 51 (Front), IP 31 (unmounted) Relative humidity (without condensation) 5 95% Storage tomperature -25 +70 °C Working temperature -25 +70 °C Working temperature -25 +70 °C Working temperature -5 +55 °C Eutrent measurement circuit 5 A Meterence current (Iref) 5 A (min./max: 0.25032 A) Reference current (Iref) 5 A Phase current measuring range 05120% Minimum current measuring range 50120% Voltage measurement circuit 10230 Vac ± 20% Kontage (Ireguency measuring range) 50/60 Hz(MID: 50 Hz) Nominal voltage 10230 Vac ± 20% Electrical safety, Maximum height (m) 200 Electrical safety, Maximum height (m) 200 Electrical safety, Contamination level/dass Pollution resistance 2 Standards EN 50/070-1, EN 50/070-3, EN 60/053-21, EN 62/053-23, EN 61/010-1, EN 61/00-6-4, EN 55/023-12, IN 62/053-23, IN 61/010-1, EN 61/00-6-4, EN 55/023-12, IN 62/053-23, I		88276 Vc.a
Envelope Self-extinguishing UL94-VD plastic Weight (kg) 0.082 Environmental characteristics Protection class Protection class IP 51 (Front), IP 31 (unmounted) Relative humidity (without condensation) 5 95% Storage temperature -25 +70 °C Working temperature -5 +55 °C Everent measurement circuit S A (min./max.: 0.25032 A) Reference current (Iref) 5 A Phase current measuring range 0.5120% Minimum current measurement 20 mA Adage measurement circuit S00 mA Voltage measurement circuit S00 fb Hz/MID: 50 Hz) Frequency measuring range 50/60 Hz/MID: 50 Hz) Nominal voltage 110230 Vac ± 20% Electrical safety, Maximum height (m) 2000 Electrical safety, Installation category CAT III 300V, IEC 61010 Electrical safety, Contamination level/class EN 50470-1; EN50470-3; EN62053-23; EN61010-1; EN 61000-6-4, EN 55022 Integrabed Energy Meter: Class B EN50470-3 in Active Energy, Class Z EN62053-23; IN Reactive Energy,	Mechanical characteristics	
Weight (kg) 0,082 Environmental characteristics Protection class IP 51 (Front), IP 31 (unmounted) Relative humidity (without condensation) 595% Storage temperature -25+70 °C Working temperature -25+70 °C Current measurement circuit - Nominal current (In) 5 A (min./max: 0.25032 A) Reference current (Iref) 5 A Phase current measuring range 05120% Minimu current measurement 20 mA Transition current 500 mA Voltage measurement circuit 50/60 Hz(MID: 50 Hz) Frequency measuring range 50/60 Hz(MID: 50 Hz) Nominal voltage 110230 Vac ± 20% Standards Electrical safety, Maximum height (m) Electrical safety, Maximum height (m) 2000 Electrical safety, Contamination level/class Pollution resistance 2 Standards EN 50470-1, EN 50470-3, EN 62053-23, EN 60101-1, EN 61000-6-4, EN 55022 Integrated Energy, Meter: Class B EN 50470-3 in Active Energy, EN 5022 Integrated Energy, Meter: Class B EN 50470-3 in Active Energy, EN 5022 Integrated Energy, Meter: Class B EN 50470-3 in Active Energy, EN 5022 Integrated Energy, Meter: Class B EN 50470-3 in	Size (mm) width x height x depth	18 x 85.5 x 71.6 (mm)
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	Envelope	Self-extinguishing UL94-V0 plastic
Protection class IP 51 (Front), IP 31 (unmounted) Relative humidity (without condensation) 595% Storage temperature -25470 °C Working temperature -5455 °C Current measurement circuit	Weight (kg)	0,082
Relative humidity (without condensation) 595% Storage temperature -25470 °C Working temperature -5455 °C Current measurement circuit 595 °C Nominal current (In) 5.4 (min./max: 0.25032 A) Reference current (Iref) 5.A Phase current measurement 05120% Minimum current measurement 20 mA Transition current 500 mA Anominal voltage 50/60 Hz(MID: 50 Hz) Nominal voltage 10230 Vac ± 20% Electrical safety, Maximum height (m) 2000 Electrical safety, Maximum height (m) 2000 Electrical safety, Contamination level/ class Pollution resistance 2 Standards Pollution resistance 2 Standards Electrical safety, Maximum height (m) Electrical safety, Contamination level/ class Pollution resistance 2 Standards Pollution resistance 2 Standards Electrical safety measurement Energy Meter: Class BEN50470-3 in Active Energy, Class 2	Environmental characteristics	
Storage temperature -25 +70 °C Working temperature -5 +55 °C Storage temperature -5 +55 °C 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 -25 20% Frequency measuring range 50/60 Hz(MID: 50 Hz) Nominal voltage 110230 Vac ± 20% Standards -2000 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, ENSO470-3, EN62053-21, EN62053-23, EN61010-1, EN 61000-6-4, EN 502053-23, IN 62053-23, EN61010-1, EN 61000-6-4, EN 502053-23, IN 62053-23, IN 6205	Protection class	IP 51 (Front), IP 31 (unmounted)
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 Prequency measuring range S0/60 Hz(MID: 50 Hz) Nominal voltage 10230 Vac ± 20% Reterring safety, Maximum height (m) Electrical safety, Maximum height (m) Electrical safety, Maximum height (m) 2000 Electrical safety, Contamination level/class Pollution resistance 2 Standards Electrical safety, Contamination level/class Electrical safety Pollution resistance 2 Standards Electrical safety meter: Class B EN50470-3 in Active Energy, Class 2 EN62053-23, EN61010-1, EN 61000-6-4, EN 550223-23 in Reactive Energy.	Relative humidity (without condensation)	5 95%
Aurrent measurement circuit 5 A (min./max::0.25032 A) Nominal current (Inc) 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 10230 Vac ± 20% Carter a Safety, Maximum height (m) Electrical safety, Installation category CAT III 300V, IEC 61010 Electrical safety, Contamination level/class Pollution resistance 2 Standards Electrical safety, Contamination level/class Standards Electrical safety installation category Standards Electrical safety contamination level/class	Storage temperature	-25 +70 °C
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 10230 Vac ± 20% Standards Electrical safety, Maximum height (m) 2000 Electrical safety, Contamination level/class Pollution resistance 2 Standards Electrical safety, Contamination level/class Standards Electrical safety, Contamination level/class Electrical safety are benergy Meter: Class B EN50470-3 in Active Energy, Class 2 Electrical safety Electrical safety measure Energy.	Working temperature	-5+55 ℃
Reference current (iref) 5 A Phase current measuring range 0.5120% Minimum current measurement 20 mA Transition current 500 mA Adlage measurement circuit Frequency measuring range S0/60 Hz(MID: 50 Hz) Nominal voltage 10230 Vac ± 20% Electrical safety, Maximum height (m) Electrical safety, Installation category CAT III 300V, IEC 61010 Electrical safety, Contamination level/class Pollution resistance 2 Standards EN 50470-1, EN 50470-3, EN 62053-23, EN 61010-1, EN 61000-6-4, EN 55022 Integrated Energy Meter: Class B EN 50470-3 in Active Energy, Class 2 EN 62053-23 in Reactive Energy.	Current measurement circuit	
Phase current measuring range 0.5120% Minimum current measurement 20 mA Transition current 500 mA Oldage measurement circuit Frequency measuring range Nominal voltage 50/60 Hz(MID: 50 Hz) Nominal voltage 110230 Vac ± 20% Itandards 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 S0470-1, ENS0470-3, 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.	Nominal current (In)	5 A (min./max.: 0.25032 A)
Minimum current measurement 20 mA Transition current 500 mA Voltage measurement circuit 50 / 60 Hz(MID: 50 Hz) Frequency measuring range 50 / 60 Hz(MID: 50 Hz) Nominal voltage 10230 Vac ± 20% Rtandards 2000 Electrical safety, Maximum height (m) 2000 Electrical safety, Installation category CAT III 300V, IEC 61010 Electrical safety, Contamination level/class Pollution resistance 2 Standards Electrical safety, Meter: Class B EN50470-3 in Active Energy, Class 2	Reference current (Iref)	5 A
Transition current 500 mA /oltage measurement circuit 50/60 Hz(MID: 50 Hz) Frequency measuring range 50/60 Hz(MID: 50 Hz) Nominal voltage 110230 Vac ± 20% Standards 2000 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.	Phase current measuring range	0.5120%
/oltage measurement circuit 50/60 Hz(MID: 50 Hz) Frequency measuring range 50/60 Hz(MID: 50 Hz) Nominal voltage 110230 Vac ± 20% Standards 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.	Minimum current measurement	20 mA
Frequency measuring range 50/60 Hz(MID: 50 Hz) Nominal voltage 110230 Vac ± 20% Standards 2000 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.	Transition current	500 mA
Nominal voltage 110230 Vac ± 20% Standards 2000 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.	/oltage measurement circuit	
Standards 2000 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.	Frequency measuring range	50/60 Hz(MID: 50 Hz)
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.	Nominal voltage	110230 Vac ± 20%
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.	Standards	
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 Electrical safety	Electrical safety, Maximum height (m)	2000
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	Electrical safety, Installation category	CAT III 300V, IEC 61010
EN 55022 Integrated Energy Meter: Class B EN50470-3 in Active Energy, Class 2 EN62053-23 in Reactive Energy.	Electrical safety, Contamination level/class	Pollution resistance 2
· · · · · · · · · · · · · · · · · · ·	Standards	EN 55022 Integrated Energy Meter: Class B EN50470-3 in Active Energy, Class 2
Insulation Double-insulated electric shock protection class II (IEC 61010-1)	Electrical safety	
	Insulation	Double-insulated electric shock protection class II (IEC 61010-1)

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CVM-1D-C

Single-phase power analyzer, DIN rail

Code: M55510.

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)
Current measurement sensors Voltage measurement sensors	Direct measurement (integrated shunt <0.5 m Ω) Direct measurement (integrated shunt <0.5 m Ω)
Voltage measurement sensors	Direct measurement (integrated shunt <0.5 m Ω)
Voltage measurement sensors Phase current measurement	Direct measurement (integrated shunt <0.5 mΩ) 0.5% ± 1 digit
Voltage measurement sensors Phase current measurement Active energy measurement (kWh)	Direct measurement (integrated shunt <0.5 mΩ) 0.5% ± 1 digit 1% ± 1 digit

Circutor

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CVM-1D-C

Single-phase power analyzer, DIN rail

Code: M55510.

Dimensions

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