

CVM-C10-ITF-IN-485-IC2, Power analyzer

Code: M55942.

- > Protocol: Modbus/RTU | BACnet
- > Communications: RS-485
- > N° relays: 2
- > Digital inputs: 2
- > Measuring current Channels: 4
- > Harmonics: 31
- > Input current: .../5 A | .../1 A
- > Mounting: Pannel
- > Modules: 96 x 96

Description

The **CVM-C10** is a panel mounted (96 x 96 mm) power analyzer that records energy values. Compact and versatile, with 4-quadrant measurement (consumption and generation). Suitable for Medium or Low voltage installations, in both 3 or 4-wire three-phase circuits,

two-phase circuits with or without neutral, single-phase circuits or ARON connections.

Display features and interface:

- Backlit touch-screen (capacitive)
- Analogue display of instantaneous parameters (power, maximum power reached and cos φ or PF)
- Backlit display
- Alarm LED indicator.
- Tariff cost
- Operating hour indicator for preventive maintenance

Application

- Record the energy consumption from three different sources: network, generator set or photovoltaic energy generation system.
- Generation of an impulse signal associated with the cost, kgCO₂ emissions or savings, according to the consumption or generation of energy.
- Selection of tariffs with digital inputs. Perfect to calculate costs in three different work shifts.
- Programs alarms on any instantaneous parameter measured or calculated. Configurable parameters: Low/High, hysteresis (%), NO/NC,

connection/disconnection delay and interlocking.



Power analyzer for panel

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Specifications

Installation category	CAT III 300 V
Consumption	4 6 VA
Frequency	50 60 Hz
Nominal voltage	95 240 V ~ ± 10%
DC power supply	
Installation category	CAT III 300 V
Consumption	2 6 W
Nominal voltage	105 272 Vdc ± 10%
Mechanical characteristics	
Size (mm) width x height x depth	96 x 96 x 60.9 (mm)
Envelope	Self-extinguishing V0 plastic
Fastening	Panel
Weight (kg)	0,322
Environmental characteristics	
Protection class	IP 51 (Front), IP 64 (with accessory), IP 21 (rear)
Relative humidity (without condensation)	5 95%
Storage temperature	-10 +65 °C
Operating temperature	-10+60 °C
Standards	
Certifications	UL/CSA 61010-1 3rd edition, UL, VDE
Electrical safety, Maximum height (m)	2000
Standards	UNE EN 61010, UNE EN 61000-6-3, UNE EN 61000-6-1, IEC 664, VDE 0110, UL 9 BS EN 61000-6-2, BS EN 61000-6-4
Current measurement circuit	
Installation category	CAT III 300 V
Nominal current (In)	/5A ,/1 A
Neutral current measurement	/5A ,/1 A
Phase current measuring range	2 120% In
Maximum input current consumption	0,9 VA
Maximum pulse current	100 A
Minimum current measurement	10 mA



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Installation category	CAT III 300 V
Input impedance	440 kΩ
Frequency measuring range	45 65 Hz
Voltage measuring range	5120% Un
Nominal voltage	300V Ph-N, 520V Ph-Ph
Minimum measurement voltage (Vstart)	15 V
Communications	
Fieldbus (BACnet)	MS/TP
Fieldbus (ModBus)	RS-485 / RTU
Stop bits (BACnet)	1
Stop bits (ModBus)	1-2
Parity (BACnet)	non
Parity	non-pair-impar
Protocol	ModBus/BACnet
Speed	9600-19200
User interface	
LED	3 LED
Keyboard	Capacitive, 3 keys
Display type	LCD Custom COG
Digital inputs	
Input/output insulation	Optoisolated
Quantity	2
Туре	NPN Potential-free contact
Digital relay outputs	
Electrical life (at maximum load)	60x10 ³ cycles
Mechanical life	10x10 ⁶ cycles
Maximum switching capacity	1500 VA
Measurement accuracy	
Phase voltage measurement	0.5% ± 1 digit



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CVM-C10

Power analyzer, panel mounted 96 x96

CODE	TYPE	Input current	Transistor output	N° relays	Digital inputs	Communications	Protocol
M55911.	CVM-C10-ITF-485-ICT2	/5 A /1 A	2	2	2	RS-485	Modbus/RTU BACnet
M55921.	CVM-C10-MC-485-ICT2	/250 mA	2	2	2	RS-485	Modbus/RTU BACnet
M55942.	CVM-C10-ITF-IN-485-IC2	/5 A /1 A		2	2	RS-485	Modbus/RTU BACnet
M559210000V	00CVM-C10-mV-485-ICT2	/333 mV	2	2	2	RS-485	Modbus/RTU BACnet



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