



CVM-C10-ITF-IN-485-IC2

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

Code: M55942. (CONSULTAR DISPONIBILIDAD)

- > 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 $\cos \varphi$ 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.



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Power analyzer for panel

Code: M55942.

Specifications

AC power supply

| | |
|-----------------------|----------------------|
| 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 |
| Working 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 94, 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 |

Voltage measurement circuit



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| | |
|--------------------------------------|-----------------------|
| Installation category | CAT III 300 V |
| Frequency measuring range | 45 ... 65 Hz |
| Voltage measuring range | 5 ...120% Un |
| Nominal voltage | 300V Ph-N, 520V Ph-Ph |
| Minimum measurement voltage (Vstart) | 15 V |

User interface

| | |
|--------------|----------------|
| LED | 3 LED |
| Keyboard | 3 keys |
| Display type | LCD Custom COG |

Digital inputs

| | |
|-------------------------|----------------------------|
| Input/output insulation | Optoisolated |
| Quantity | 2 |
| Type | 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 |
|---------------------------|----------------|

Serial communication

| | |
|-------------------|--------------------|
| Protocol | ModBus/RTU, BACnet |
| Technology / Type | RS-485 / BACnet |



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Dimensions



Connections

