



CVM-MINI-ITF-RS485-C2

CVM-MINI-ITF-RS485-C2, Power analyzer

Code: M52021.

- > Protocol: Modbus/RTU
- > Insulated input: Yes
- > Communications: RS-485
- > Transistor output: 2
- > Input current: .../5 A | .../1 A
- > Mounting: DIN rail

Description

Three-phase power analyzer (balanced and unbalanced), assembly on DIN rail, with a very compact size, and 4-quadrant measurement.

Other features include:

- Current measurement .../5 or .../1 A or .../250 mA, .../333 mV
- DIN rail format of only 3 modules
- Assembly on 72 x 72 mm panel with adapter front panel
- RS-485 Communications (Modbus-RTU) depending on model
- It features two transistor outputs (programmable)
- With ITF technology: galvanic insulation protection, depending on the type
- Selection of parameters to display
- Selection of the default page
- 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.
- Alarm control. Maximum value, minimum value and programmable delay.
- Control of active or reactive energy using the impulse output.
- Instantaneous data capture, maximum and minimum values of the electrical parameters measured.



CVM-MINI-ITF-RS485-C2

Three-phase power analyzer, assembly on DIN rail

Code: M52021.

Specifications

AC power supply

| | |
|-----------------|-----------------------|
| Consumption | 3 VA |
| Frequency | 50...60 Hz |
| Nominal voltage | 230 Vc.a.(-15...+10%) |

Mechanical characteristics

| | |
|----------------------------------|-------------------------------|
| Size (mm) width x height x depth | 53 x 85 x 85 (mm) |
| Envelope | Self-extinguishing V0 plastic |
| Fastening | DIN rail 46227 |
| Weight (kg) | 0,2 |

Environmental characteristics

| | |
|--|----------------------------------|
| Protection class | IP 51 (Front), IP 31 (unmounted) |
| Relative humidity (without condensation) | 5...95% |
| Working temperature | -10...+50 °C |

Standards

| | |
|--|--|
| 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/5A , In/1 A |
| Permanent overload | 1.2 In |
| Maximum input current consumption | 0,9 VA |

Voltage measurement circuit

| | |
|-----------------------------------|-----------------------|
| Frequency measuring range | 45 ... 65 Hz |
| Nominal voltage | 300V Ph-N, 520V Ph-Ph |
| Maximum input voltage consumption | 0,7 VA |

Communications

| | |
|--------------------|--------------------|
| Fieldbus | RS-485 |
| Stop bits (ModBus) | 1-2 |
| Parity | without, even, odd |
| Protocol | ModBus RTU |



CVM-MINI-ITF-RS485-C2

Three-phase power analyzer, assembly on DIN rail

Code: M52021.

| | |
|-------------------|---------------------------|
| Speed | 1200-2400-4800-9600-19199 |
| Peripheral number | 0...255 |

Electrical safety

| | |
|------------|---|
| Insulation | Double-insulated electric shock protection class II (IEC 61010-1) |
|------------|---|

Digital transistor outputs

| | |
|-------------------|-----------|
| Pulse width | 100 ms |
| Quantity | 2 |
| Type | NPN |
| Maximum frequency | 5 imp / s |
| Maximum current | 50 mA |
| Maximum voltage | 24 Vdc |

Measurement accuracy

| | |
|---------------------------|----------------|
| Phase voltage measurement | 0.5% ± 1 digit |
|---------------------------|----------------|

CVM-MINI-MC units require efficient MC series transformers, which are not included in the price. CVM-MINI-xx-ETH units are only available with a 230 Vac power supply



CVM-MINI-ITF-RS485-C2

Three-phase power analyzer, assembly on DIN rail

Code: M52021.

Dimensions

