CVM-MINI-HAR-ITF-RS485-C2

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

Code: M52031. **CONSULTAR DISPONIBILIDAD**

> Protocol: Modbus/RTU
> Insulated input: Yes
> Communications: RS-485
> Transistor output: 2
> Harmonics: U e I (15)
> 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.

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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%
Operating 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
Allowable overload	1.2 In
Permanent overload	1.2 In
Maximum input current consumption	0,9 VA

Voltage measurement circuit

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

Electrical safety

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

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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
Current harmonics (THD)	15
Voltage harmonics (THD)	15

Serial communication

Protocol	ModBus RTU
Technology / Type	RS-485

CVM-MINI
Power analyzer, three-phase DIN rail

CODE	TYPE	Input current	Transistor output	Communications	Protocol
M52000.	CVM-MINI				
M52011.	CVM MINI-ITF-C2				
M52071.	CVM MINI-MC-ITF-C2	.../250 mA	2		
M52021.	CVM-MINI-ITF-RS485-C2	.../5 A | .../1 A	2	RS-485	Modbus/RTU
M52081.	CVM-MINI-MC-ITF-RS485-C2	.../250 mA	2	RS-485	Modbus/RTU
M52031.	CVM-MINI-HAR-ITF-RS485-C2	.../5 A | .../1 A	2	RS-485	Modbus/RTU
M520J1.	CVM-MINI-ITF-ETH-C2				
M520L1.	CVM MINI-MC-ITF-ETH-C2				
M520F1.	CVM-MINI-ITF-BACnet-C2	.../5 A | .../1 A	2	RS-485	BACnet
M520H1.	CVM-MINI-MC-ITF-BACnet-C2	.../250 mA	2	RS-485	BACnet
M52091.	CVM-MINI-ITF-LonWorks-C2	.../5 A | .../1 A	2	LonWorks	LonTalk (ISO/IEC 14908, ANSI/EIA 7091)
M520810000V00	CVM-MINI-mV-ITF-RS485-C2				

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

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Dimensions

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