





CVM-E3-MINI-ITF-485-IC, Power analyzer

Code: M56414.

> Protocol: Modbus/RTU | BACnet > Communications: RS-485

> Transistor output: 1

Digital inputs: 1Harmonics: 31

> Power supply (Vac): 207...253 Vac

> Input current: .../5 A | .../1 A

> Mounting: DIN rail

#### Description

Three-phase power analyzer (balanced and unbalanced) for mounting on DIN rail, very compact, with measurements in 4 quadrants.

Other features:

- $\circ~$  Current measurement .../5 or .../1 A or .../250 mA or Rogowski type sensors
- o With ITF technology: ITF galvanic insulation protection
- O DIN rail with only 3 modules
- o High-contrast backlit display
- o 72 x 72 mm panel mounting with front adapter
- o RS-485 communication (Modbus/RTU up to 19.2 kbps) (Bacnet up to 19.2 kbps)
- One transistor output (programmable)
- One digital input for selecting tariff or logic states
- Sealable terminal cover
- Harmonic display (V, A) up to 31°

## **Application**

- Control application in low- and medium-voltage distribution panels and switchboards where it is necessary to place an analyzer on the DIN rail due to problems of space.
- o Alarm control. Maximum value, minimum value and programmable delay.
- o Control of active or reactive energy by impulse output.
- o Capture of maximum and minimum instantaneous data of electrical parameters measured.







Three-phase power analyzer for DIN rail

Code: M56414.

# **Specifications**

AC power supply				
Installation category	CAT III 300 V			
Consumption	4 VA			
Frequency	5060 Hz			
Nominal voltage	207253 Vc.a.			
Mechanical characteristics				
Size (mm) width x height x depth	52.5 x 118 x 74 (mm)			
Envelope	Self-extinguishing V0 plastic			
Differential current measurement	min. 2,5 mm2			
Fastening	DIN rail			
Weight (kg)	0,368			
Environmental characteristics				
Protection class	IP 30 / Front: IP 40			
Relative humidity (without condensation)	595%			
Storage temperature	-10 +50 °C			
Working temperature	-5 +45 °C			
Current measurement circuit				
Installation category	CAT III 300 V			
Nominal current (In)	/5 A ó/1 A			
Phase current measuring range	2120% de ln			
Maximum input current consumption	0,9 VA			
Minimum current measurement	0,2 % In			
Voltage measurement circuit				
Installation category	CAT III 300 V			
Input impedance	400 kΩ			
Frequency measuring range	4565 Hz			
Nominal voltage	300V Ph-N, 520V Ph-Ph			
Maximum input voltage consumption	0,15 VA			
Minimum measurement voltage (Vstart)	11 V Ph-N			
Standards				
Electrical safety, Maximum height (m)	2000			
Standards	IEC 61010-1, IEC 61010-2-030, IEC 61326-1, IEC 61557-12 , UL94			







Three-phase power analyzer for DIN rail

Code: M56414.

#### User interface

1.50	2150
LED	2 LED
Keyboard	3 keys
Display type	LCD Custom COG

### Digital inputs

Input/output insulation	Optoisolated
Quantity	1
Туре	NPN Potential-free contact

### Digital transistor outputs

Pulse width	30500 ms (Programmable)		
Туре	NPN		
Maximum frequency	16 imp / s		
Maximum current	50 mA		
Maximum voltage	24 Vdc		

#### Measurement accuracy

Frequency measurement	0,50%
Phase current measurement	0,5% ± 1 digit
Reactive energy measurement (kvarh)	Class 2
Reactive power measurement (kvar)	class 2
Apparent power measurement (kVA)	0.5 % ±2 digits
Active energy measurement (kWh)	I < 0,1 In (Class 1) / I > 0,1 In (Class 0,5)
Active power measurement (kW)	0.5 % ±2 digits
Phase voltage measurement	0.5% ± 1 digit

#### Serial communication

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

#### CVM-E3-MINI

Power analyzer, three-phase DIN rail

CODE	ТҮРЕ	Input current	Transistor output	Digital inputs	Communications	Protocol
M56414.	CVM-E3-MINI-ITF-485-IC	/5 A  /1 A	1	1	RS-485	Modbus/RTU   BACnet
M56424.	CVM-E3-MINI-MC-485-IC	/250 mA	1	1	RS-485	Modbus/RTU   BACnet
M56454.	CVM-E3-MINI-FLEX-485-IC	Rogowski	1	1	RS-485	Modbus/RTU   BACnet

<sup>&</sup>quot;Built-in wireless communication on all WiEth models for configuration via free app (MyConfig) RS-485 models, possibility of switching power supply Consult additional benefits"







Three-phase power analyzer for DIN rail

Code: M56414.

Connections Dimensions



