





CVM-E3-MINI-FLEX-485-IC, rail power analyzer

Code: M56454.

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

> Transistor output: 1> Digital inputs: 1

> Harmonics: 31

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

> Input current: Rogowski> 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
- High-contrast backlit display
- $\circ~72~x~72~mm$  panel mounting with front adapter
- $\circ~$  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.
- Capture of maximum and minimum instantaneous data of electrical parameters measured.







Three-phase power analyzer for DIN rail

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### **Specifications**

Installation category	CAT III 300 V	
Consumption	4 VA	
Frequency	5060 Hz	
Nominal voltage	207253 Vc.a.	
dechanical 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)	0,28	
nvironmental characteristics		
Protection class	IP 30 / Front: IP 40	
Relative humidity (without condensation)	595%	
Storage temperature	-10 +50 °C	
Working temperature	-5 +45 °C	
urrent measurement circuit		
	CAT III 300 V	
urrent measurement circuit	CAT III 300 V 1000 A / 100 mV	
urrent measurement circuit Installation category		
Installation category  Nominal current (In)	1000 A / 100 mV	
Installation category Nominal current (In) Phase current measuring range	1000 A / 100 mV 10 120% de In	
Installation category  Nominal current (In)  Phase current measuring range  Maximum input current consumption	1000 A / 100 mV 10 120% de In 0,9 VA	
Installation category Nominal current (In) Phase current measuring range Maximum input current consumption Maximum current	1000 A / 100 mV 10 120% de In 0,9 VA 1200 A / 120 mV	
Installation category Nominal current (In) Phase current measuring range Maximum input current consumption Maximum current Minimum current measurement	1000 A / 100 mV 10 120% de In 0,9 VA 1200 A / 120 mV	
Installation category Nominal current (In) Phase current measuring range Maximum input current consumption Maximum current Minimum current measurement oltage measurement circuit	1000 A / 100 mV 10 120% de In 0,9 VA 1200 A / 120 mV 20 A / 2 mA	
Installation category  Nominal current (In)  Phase current measuring range  Maximum input current consumption  Maximum current  Minimum current measurement  oltage measurement circuit  Installation category	1000 A / 100 mV 10 120% de In 0,9 VA 1200 A / 120 mV 20 A / 2 mA	
Installation category Nominal current (In) Phase current measuring range Maximum input current consumption Maximum current Minimum current measurement  oltage measurement circuit  Installation category Input impedance	1000 A / 100 mV 10 120% de In 0,9 VA 1200 A / 120 mV 20 A / 2 mA CAT III 300 V 400 kΩ	
Installation category Nominal current (In) Phase current measuring range Maximum input current consumption Maximum current Minimum current measurement  oltage measurement circuit  Installation category Input impedance Frequency measuring range	1000 A / 100 mV 10 120% de In 0,9 VA 1200 A / 120 mV 20 A / 2 mA CAT III 300 V 400 kΩ 4565 Hz	
Installation category Nominal current (In) Phase current measuring range Maximum input current consumption Maximum current Minimum current measurement  oltage measurement circuit  Installation category Input impedance Frequency measuring range Nominal voltage	1000 A / 100 mV  10 120% de In  0,9 VA  1200 A / 120 mV  20 A / 2 mA  CAT III 300 V  400 kΩ  4565 Hz  300V Ph-N, 520V Ph-Ph	
Installation category Nominal current (In) Phase current measuring range Maximum input current consumption Maximum current Minimum current measurement  oltage measurement circuit  Installation category Input impedance Frequency measuring range Nominal voltage Minimum measurement voltage (Vstart)	1000 A / 100 mV  10 120% de In  0,9 VA  1200 A / 120 mV  20 A / 2 mA  CAT III 300 V  400 kΩ  4565 Hz  300V Ph-N, 520V Ph-Ph	







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#### User interface

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 3
Reactive power measurement (kvar)	2 % ±2 digits
Apparent power measurement (kVA)	1 % ±2 digits
Active energy measurement (kWh)	Class 2
Active power measurement (kW)	1 % ±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"









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# **Dimensions**

# Connections





