

M-CVM-K2-ITF-402, Power analyzer

#### Code: M54412. DESCATALOGADO

- > Protocol: Modbus/RTU
- > Communications: RS-485
- > Class in power: 0.2

#### Description

Three-phase power analyzer (balanced and unbalanced networks), assembly on panels or DIN rails, with a graphical display, with 4-quadrant measurement.

Other features include:

- Class 0.2 or 0.5 power and energy
- Measurement of power quality events (guaranteeing the power supply of the unit by means of a UPS system, battery, etc.)
- Current measurement .../5 or .../1 A
- Measurement of the neutral current with a transformer
- Rating of consumed and generated energy (up to 9 tariffs)
- RS-485 Modbus/RTU communication
- Possibility of expansion (up to 3 modules)
- Backlit VGA graphic screen
- $\,\circ\,\,$  Instantly shows electrical parameters, maximum and minimum values with date and time
- Consumed and generated energy meter up to 100 GW·h
- Universal power supply as standard
- With ITF technology: galvanic insulation protection

#### Application

- Control application for general distribution switchboards and low-, medium- and high-voltage connection points
- Alarm station, featuring voltage-free digital inputs
- $\circ~$  Submetering station: impulse meter for other services (gas, water, steam etc.) via the digital inputs
- Measurement transducer: possibility of associating instantaneous parameters with one of the available analogue outputs (0 to 20 mA / 4 to 20 mA)
- Unit for recording the instantaneous, maximum and minimum parameters, with date and time, via the memory expansion card
- Power quality analyzer: Harmonic decomposition, up to the 50th order harmonic, asymmetries, flicker, unbalances, overvoltages, gaps, interruptions, etc.



Three-phase power analyzer, assembly on panel or DIN rail

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### Specifications

Installation category	CAT III 300/520 Vac (IEC 61010)
Consumption	<30 VA
Frequency	5060Hz
Nominal voltage	85265 Vc.a. (-15+10%)
DC power supply	
Consumption	<25 W
Nominal voltage	100300 Vdc
Mechanical characteristics	
Size (mm) width x height x depth	144 x 144 x 116 (mm)
Envelope	Self-extinguishing VO plastic
Weight (kg)	0,44
Environmental characteristics	
Protection class	IP 51 (Front), IP 20 (rear)
Relative humidity (without condensation)	595%
Storage temperature	-20+65 °C
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, IEC 62053-22
Current measurement circuit	
Nominal current (In)	In/5A, In/1A
Primary current measurement	Programmable < 30000 A
Phase current measuring range	1120% In (In = 5 A)
Permanent overload	1.2 In
Maximum input current consumption	<0,45 VA (/5 ,/1)
Maximum pulse current	100 A
Minimum current measurement	40 mA



### Three-phase power analyzer, assembly on panel or DIN rail

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Installation category	CAT III 300/520 V (EN-61010)
Frequency measuring range	4565 Hz
Voltage measuring range	5120% Un
Nominal voltage	300V Ph-N, 520V Ph-Ph
Maximum input voltage consumption	<0,6 VA
Minimum measurement voltage (Vstart)	10 V~
Communication Network	
Protocol	ModBus/RTU, ModBus/TCP
Technology / Type	Ethernet
Electrical safety	
Insulation	Double-insulated electric shock protection class II (IEC 61010-1)
Digital inputs	
Consumption (per input)	<0,5 W
Minimum signal width	40 ms
Operating voltage	24 Vdc ± 20 %
Analogue outputs	
Current mode, nominal range	0-20 mA/4-20 mA
Current mode: maximum load resistance	300 Ω
DAC resolution	4000 points
Response time	< 2 s
Digital transistor outputs	
Туре	Optocoupler
Maximum current	100 mA
Maximum resistance RON	25 Ω
Maximum voltage	150 Vdc / 250 V~
Measurement accuracy	
Power factor measurement	0,51
Phase voltage measurement	± 0,2% ± 2 (20 120% Un)
Serial communication	
Protocol	ModBus/RTU





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## Connections

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# Circutor