

CVMk2-ITF-405

CVM k2-ITF-405, Analyzer

Code: M54400. DESCATALOGADO

- > Protocol: Modbus/RTU
- > Communications: RS-485
- > Class in power: 0.5

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
- 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.

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

Code: M54400.

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) | 0,81 |
| 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 |

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

Code: M54400.

| 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 | ± 0,5% ± 1 (20 120% Un) |
| Serial communication | |
| | |
| Protocol | ModBus/RTU |





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Connections

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