



CVMk2-ITF-402

CVM k2-ITF-402, Power analyzer

Code: M54402.

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

Specifications

AC power supply

Installation category	CAT III 300/520 Vac (IEC 61010)
Consumption	<30 VA
Frequency	50...60Hz
Nominal voltage	85...265 Vc.a. (-15...+10%)

DC power supply

Consumption	<25 W
Nominal voltage	100...300 Vdc

Mechanical characteristics

Size (mm) width x height x depth	144 x 144 x 116 (mm)
Envelope	Self-extinguishing V0 plastic
Cable gauge at power supply terminals	1 mm ² (min)
Cable gauge at current terminals	2,5 mm ² min.
Cable gauge at voltage terminals	1 mm ² min.
Weight (kg)	0,82

Environmental characteristics

Protection class	IP 51 (Front), IP 20 (rear)
Relative humidity (without condensation)	5...95%
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	1...120% In (In = 5 A)



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Permanent overload	1.2 In
Maximum input current consumption	<0,45 VA (.../5 , .../1)
Maximum pulse current	100 A
Minimum current measurement	40 mA

Voltage measurement circuit

Installation category	CAT III 300/520 V (EN-61010)
Frequency measuring range	45...65 Hz
Voltage measuring range	5 ...120% Un
Nominal voltage	300V Ph-N, 520V Ph-Ph
Maximum input voltage consumption	<0,6 VA
Minimum measurement voltage (Vstart)	10 V~

Communications

Fieldbus	RS-485 / Ethernet RJ-45
Stop bits (ModBus)	1 - 2
Parity	without, even, odd
Protocol	ModBus/RTU, ModBus/TCP
Speed	9600 - 19200 - 38400 - 57600 / Ethernet: 10baseT / 100base /Tx compatible
Peripheral number	1...255

Electrical safety

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

Consumption (per input)	<0,5 W
Minimum signal width	40 ms
Operating voltage	24 Vdc \pm 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

Type	Optocoupler
Maximum current	100 mA
Maximum resistance RON	25 Ω
Maximum voltage	150 Vdc / 250 V~



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Measurement accuracy

Power factor measurement	0,5...1
Phase voltage measurement	$\pm 0,2\% \pm 2$ (20 ... 120% Un)



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Connections

