



CVM-C4-ITF-485-ICT2, Power analizer, panel mounted 96x96

Code: M52706.

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

> Transistor output: 2

> Nº relays: 2

> Digital inputs: 2

> Measuring current Channels: 3 > Input current: .../5 A | .../1 A

> Mounting: Pannel

Description

CVM-C4 is a power analyser that measures, calculates and displays the main electrical parameters for single-phase and three-phase networks (with or without neutral) on its screen. Measurement is made in true rms value, by means of 3 AC voltage inputs and 3 /5 A or /1 A current inputs. Relay outputs enable local operation in the event of an alarm event being triggered. Its dimensions are 96 x 96 mm with a depth of only 41.5 mm. Current measurement is indirectly carried out by /5A or /1A transformers. It allows AC (80...270 Vac)and DC (80...270 Vdc or 18... 36 Vdc power supply systems). It features RS-485 communications enabling remote data readout or Scada or Master centralisation.

Application

- For electrical parameter measurement in areas whose reduced dimensions require the installation of a space-saving panel analyser.
- o Instantaneous value measurement of electrical parameters with communications.
- o Logging of consumed or generated Active or Reactive Energy.
- o The device's relay outputs allow the installation to be locally operated.
- Programmable alarms by setting relay activation time, connection delay and hysteresis.
- o 5000 imp/kWh energy impulse outputs
- o Energy measurement of two different sources on 2 separate meters (by digital input activation).
- o Voltage and current THD% measurement to check for harmonics in the installation.







Multifunctional multimeter for panel

Code: M52706.

Specifications

AC power supply	
Installation category	CAT III 300V
Consumption	6 18 VA
Frequency	50/60 Hz
Nominal voltage	80 270 Vac
DC power supply	
Installation category	CAT III 300 V
Consumption	1.5 1.8 W
Nominal voltage	80270 Vdc
Mechanical characteristics	
Size (mm) width x height x depth	96 x 96 x 41.5 (mm)
Envelope	Polycarbonate + ABS
Torque setting	0.5 Nm
Communications cable cross-section	2.5 mm ²
Cable gauge at power supply terminals	2.5 mm ²
Cable gauge at input and output terminals	2,5 mm ²
Cable gauge at current terminals	2,5 mm²
Cable gauge at voltage terminals	2.5 mm ²
Weight (kg)	0,268
Environmental characteristics	
Protection class	Front: IP54, Rear: IP20
Relative humidity (without condensation)	5 95%
Storage temperature	-20 +70 °C
Working temperature	-10 +60 °C
Current measurement circuit	
Installation category	CAT III 300 V
Consumption	< 0.2 VA (por fase)
Nominal current (In)	1 A / 5 A ~
Allowable overload	1.2 In continuous, 10 In instantaneous(5s)
Voltage measurement circuit	
Installation category	CAT III 300 V
Consumption	< 0.2 VA (por fase)
Sampling frequency	4565 Hz







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Stop bits (ModBus)						
Data hits Sop bits (ModBus) 1-2 Un continous, 2 Un instantaneous 1-2 Un continous 1-2 Un	Input impedance	> 1.7 MΩ				
Data bits Some pits (Modisus) 1-2 Parity	Nominal voltage	100277 V~ Ph-N (± 8%)				
Parily	Maximum permanent measurement voltage	1.2 Un continous, 2 Un instantaneous				
1-2	Communications					
Parity non-pair-impar Protocol ModBus RTU Speed 2400-4800-9600-19200 Standards Standards Electrical safety, Maximum height (m) 2000 Electrical safety, Installation category CAT III 300 V Electrical safety, Contamination level / class Pollution resistance 2 Standards Electrical safety, Electrono-4-2, IEC 61000-4-3, IEC 61000-4-3, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-9,	Data bits	8				
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User interface Keyboard 3 keys Display type LCD Display type LCD Display type LCD Display type LCD Display type LCD Display type LCD Display type LCD Display type LCD Display type LCD Display type LCD Display type LCD Display type LCD Display type LCD Display type LCD Display type LCD Display type LCD Display type Potential-free contact 4 mA Maximum open circuit voltage Display type LCD Display type LCD Display type LCD Display type Potential-free contact 4 mA A mA A mA A mA Display type LCD Display type LCD Display type Potential-free contact 4 mA A mA A mA A mA A mA A maximum open circuit voltage LCD Display type LCD A maximum open circuit voltage LCD LCD LCD LCD LCD LCD LCD LC	Electrical safety, Contamination level/class	Pollution resistance 2				
Keyboard Display type LCD LCD LCD LCD LCD LCD LCD LC	Standards					
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Quantity 2 Type Relay Resistive load (max.) 250 Vca / 5 Aca, 30 Vcc / 5 Acc Maximum current 5 A ~ Maximum open contact voltage 277 V ~ / 30 Vdc Electrical life (250 V ~ / 5 A) 1 x 10 ⁵ Maximum switching capacity 1385 VA / 150 W Pulse width Minimum pulse width: 80mA	Maximum short-circuit current	4 mA				
Quantity2TypeRelayResistive load (max.)250 Vca / 5 Aca, 30 Vcc / 5 AccMaximum current5 A ~Maximum open contact voltage277 V ~ / 30 VdcElectrical life(250 V ~ / 5 A) 1 x 105Maximum switching capacity1385 VA / 150 WDigital transistor outputsMinimum pulse width: 80mA	Maximum open circuit voltage	30 V				
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Maximum open contact voltage 277 V ~ / 30 Vdc Electrical life (250 V ~ / 5 A) 1 x 10 ⁵ Maximum switching capacity 1385 VA / 150 W Digital transistor outputs Pulse width Minimum pulse width: 80mA	Resistive load (max.)	250 Vca / 5 Aca, 30 Vcc / 5 Acc				
Electrical life (250 V ~ / 5 A) 1 x 10 ⁵ Maximum switching capacity 1385 VA / 150 W Digital transistor outputs Pulse width Minimum pulse width: 80mA	Maximum current	5 A ~				
Maximum switching capacity 1385 VA / 150 W Digital transistor outputs Pulse width Minimum pulse width: 80mA	Maximum open contact voltage	277 V ~ / 30 Vdc				
Maximum switching capacity 1385 VA / 150 W Digital transistor outputs Pulse width Minimum pulse width: 80mA	Electrical life	(250 V ~ / 5 A) 1 x 10 ⁵				
Pulse width Minimum pulse width: 80mA	Maximum switching capacity	1385 VA / 150 W				
	Digital transistor outputs					
Type Passive impulse	Pulse width	Minimum pulse width: 80mA				
	Туре	Passive impulse				







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Maximum frequency	10 Hz
Maximum current	27 mA
Maximum voltage	27 Vcc
Measurement accuracy	

Frequency measurement	0.5 %	
Phase current measurement	0.2 %	
Reactive energy measurement (kvarh)	0.5 %	
Reactive power measurement (kvar)	0.5 %	
Active energy measurement (kWh)	0.5 %	
Active power measurement (kW)	0.5 %	
Phase voltage measurement	0.2 %	







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 $\mathsf{CVM}\!-\!\mathsf{C4}$

Power analyzer, panel mounted 96x96

CODE	TYPE	Input current	Transistor output	N° relays	Digital inputs	Communications	Protocol
M52706.	CVM-C4-ITF-485-ICT2	/5 A /1 A	2	2	2	RS-485	Modbus/RTU

4-quadrant measuring unit. Can be used to program the voltage transformer ratio









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Connections Dimensions



