



CVM-C11-ITF-IN-485-ICT2, Power analyzer 96 x 96

Code: M58541.

> Protocol: Modbus/RTU | BACnet

> Communications: RS-485

> Transistor output: 2

> N° relays: 2

> Digital inputs: 2

> Measuring Channels: 4

> Harmonics: 31

> Power supply: 100...270 Vac/dc > Input current: .../5 A | .../1 A

> Mounting: Pannel > Modules: 96 x 96

Description

The CVM-C11 is a power analyzer for a panel (96 \times 96 mm) with power logging. Ideal for analyzing electrical and consumption quality variables, such as THD% for voltage and current, as well as individual harmonics for each phase up to the 31st. The inclusion of neutral current measurement lets users detect any imbalance, as well as detect overloads in the neutral conductor. Compact and versatile with measurements in 4 quadrants (consumption and generation), suitable for medium- and low-voltage installations. Display and interface characteristics:

- O User-defined parameter display.
- o Backlit screen
- o On-screen graphic display of instantaneous active power
- o On-screen graphic display of all quadrants (Q1, Q2, Q3, Q4).
- \circ On-screen numerical indication of the value of $\cos\phi$ or PF.
- \circ $\,$ On-screen indication of the status of outputs, inputs and/or active tariff.
- LED alarm indicator
- Costs, kg of CO₂ emitted and operating time per tariff

Application

- Discrimination of power consumption into three tariffs. Ideal for determining consumption during three different work shifts or from three different energy sources (grid, generator and photovoltaic generation), using the digital inputs.
- Generation of an impulse signal related to cost, kg of CO₂ emitted or proportional to energy consumption or generation.
- Alarm control (2 relay outputs + 2 digital outputs) for any instantaneous parameter, whether measured or calculated. Adjustable based on maximum/minimum value, hysteresis (%), NO/NC, connection/disconnection delay and interlocks.







Power analyzer for panel

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Specifications

AC power supply	
Installation category	CAT III 300 V
Consumption	2 5 VA
Frequency	50 60 Hz
Nominal voltage	100 270 V ~ ± 10%
DC power supply	
Installation category	CAT III 300 V
Consumption	1.2 2 W
Nominal voltage	100 270 Vdc ± 10%
Mechanical characteristics	
Size (mm) width x height x depth	96 x 96 x 67.2 (mm)
Envelope	Self-extinguishing V0 plastic
Fastening	Panel
Weight (kg)	0,353
Environmental characteristics	
Protection class	IP 54 (Front), IK 08
Relative humidity (without condensation)	5 95%
Storage temperature	-25+75 °C
Working temperature	-25+70 °C
Current measurement circuit	
Installation category	CAT III 300 V
Nominal current (In)	/5A ,/1 A
Phase current measuring range	1 120% In
Maximum pulse current	100 A
Minimum current measurement	1 mA
Voltage measurement circuit	
Installation category	CAT III 300 V
Frequency measuring range	45 65 Hz
Voltage measuring range	5120% Un
Nominal voltage	100 300 V Ph-N, 520 V Ph-Ph
Minimum measurement voltage (Vstart)	10 V
Communications	
Fieldbus (BACnet)	MS/TP







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Fieldbus (ModBus)	RS-485 / RTU					
Stop bits (BACnet)	1					
Stop bits (ModBus)	1-2					
Parity (BACnet)	non					
Parity	non-pair-impar					
Protocol	ModBus RTU / BACnet					
Speed	9600-19200-38400 bps (ModBus RTU & BACnet)					
Standards						
Electrical safety, Maximum height (m)	2000					
Electrical safety, Installation category	CAT III 300 V					
Electrical safety, Contamination level/class	Pollution resistance 2					
Standards	EN IEC 61326-1, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11, EN 61010-2-030, EN IEC 61557-12					
User interface						
LED	2 LED					
Keyboard	3 keys					
Display type	LCD Custom COG					
Digital inputs						
Input/output insulation	2000 V					
Quantity	2					
Туре	NPN					
Digital relay outputs						
Electrical life (at maximum load)	60x10 ³ cycles					
Mechanical life	10x10 ⁶ cycles					
Maximum switching capacity	625 VA / 75 W (AC1)					
Digital transistor outputs						
Pulse width	30 ms a 400 ms (Programmable)					
Quantity	2					
Туре	NPN					
Maximum frequency	16 imp / s					
Maximum current	50 mA					
Maximum voltage	24 Vdc					
Measurement accuracy						
Phase current measurement	0.2%					
Reactive energy measurement (kvarh)	Class 1 (only for the analizer without current transformers), IEC 62053-24					







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Reactive power measurement (kvar)	1% ± 2 digit			
Active energy measurement (kWh)	Class 0.5S (only for the analizer without current transformers), IEC 62053-22			
Active power measurement (kW)	0.5% ± 2 digit			
Phase voltage measurement	0.2%			

CVM-C11

Power analyzer, panel mounted 96 x96

CODE	TYPE	Measuring Channels	Input current	Transistor output	N° relays	Digital inputs	Communications	Protocol	Harmonics	Power supply
M58541.	CVM-C11-ITF-IN-485-ICT2	4	/5 A /1 A	2	2	2	RS-485	Modbus/RTU BACnet	31	100270 Vac/dc



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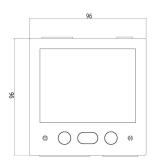


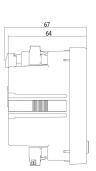


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Connections Dimensions





Red Trifásica 4 hilos 4-wire three-phase network

