



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
- $\circ$   $\,$  Costs, kg of  $\mathrm{CO_2}$  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 CO<sub>2</sub> 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
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)	0,363
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
Standards	
Certifications	UL 94
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, EN 61010-1, UNE-EN 60068-2-2, UNE-EN 60068-2-1, UNE-EN 60068-2-78, UL 94
Current measurement circuit	
Installation category	CAT III 300 V
Nominal current (In)	5A/5A ,/1 A
Minimum current measurement	10 mA
Voltage measurement circuit	
Installation category	CAT III 300 V
Input impedance	> 1.7 MΩ







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Frequency measuring range	45 65 Hz
Nominal voltage	230V Ph-N, 380V Ph-Ph
Minimum measurement voltage (Vstart)	10 V ~
Maximum value	300 VF-N /520 VF-F
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 <sup>3</sup> cycles
Mechanical life	10x10 <sup>6</sup> 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% (1 120% ln)
Reactive power measurement (kvar)	1% ± 2 digit
Active power measurement (kW)	0.5% ± 2 digit
Phase voltage measurement	0.2% (5120% Un)
Serial communication	
Protocol	ModBus RTU BACnet
Technology / Type	RS-485

#### CVM-C11

Power analyzer, panel mounted 96 x96







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CODE	TYPE	Measuring Channels	Input current	Transistor output	N° relays	Digital inputs	Communications	Protocol	Harmonics	Power supply
M58531.	CVM-C11-ITF-IN-ETH-ICT2	4	/5 A   /1 A	2	2	2	Ethernet	Modbus/TCP   BACnet	31	100270 Vac/dc
M58541.	CVM-C11-ITF-IN-485-ICT2	4	/5 A   /1 A	2	2	2	RS-485	Modbus/RTU   BACnet	31	100270 Vac/dc
M58581.	CVM-C11-MC-IN-485-ICT2	4	/250 mA	2	2	2	RS-485	Modbus/RTU   BACnet	31	100270 Vac/dc
M58561.	CVM-C11-FLEX-IN-485-ICT2	4	100 mV/kA	2	2	2	RS-485	Modbus/RTU   BACnet	31	100270 Vac/dc
Kits										
M58562.	CVM-C11-FLEX+3 MFC-FLEX-80									
M58563.	CVM-C11-FLEX+3 MFC-FLEX-125									
M58564.	CVM-C11-FLEX+4 MFC-FLEX-80									
M58565.	CVM-C11-FLEX+4 MFC-FLEX-125									



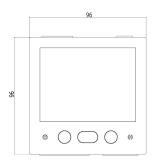


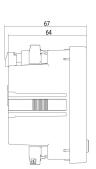


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Connections Dimensions





## Red Trifásica 4 hilos 4-wire three-phase network

