

CVM-C11-ITF-IN-ETH-ICT2

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

Code: M58531000G0000 **DESCATALOGADO**

> Protocol: Modbus/TCP | BACnet
> Communications: Ethernet
> 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 x 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:

- User-defined parameter display.
- Backlit screen
- On-screen graphic display of instantaneous active power
- On-screen graphic display of all quadrants (Q1, Q2, Q3, Q4).
- On-screen numerical indication of the value of cos φ or PF.
- On-screen indication of the status of outputs, inputs and/or active tariff.
- LED alarm indicator
- Costs, kg of 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_2 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.



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Power analyzer for panel

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Specifications

AC power supply

Installation category	CAT III 300 V
Frequency	50 ... 60 Hz

DC power supply

Installation category	CAT III 300 V
Consumption	2,4 ... 2,6 W
Nominal voltage	20...60 Vdc

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
Operating 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
Frequency measuring range	45 ... 65 Hz



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Power analyzer for panel

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Nominal voltage	230V Ph-N, 380V Ph-Ph
Minimum measurement voltage (Vstart)	10 V ~
Maximum value	300 VF-N /520 VF-F

Communication Network

Connection mechanism	RJ-45
Protocol	ModBus TCP/IP|BACnet
Technology / Interface	Ethernet 10BaseT — 100Base TX self-detectable

User interface

LED	2 LED
Keyboard	3 keys
Display type	LCD Custom COG

Digital inputs

Input/output insulation	2000 V
Quantity	2
Type	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
Type	NPN
Maximum frequency	16 imp / s
Maximum current	50 mA
Maximum voltage	24 Vdc

Measurement accuracy

Phase current measurement	0.2% (1 ... 120% In)
Reactive power measurement (kvar)	1% ± 2 digit
Active power measurement (kW)	0.5% ± 2 digit
Power factor measurement	0.5 %
Phase voltage measurement	0.2% (5 ...120% Un)

Serial communication

Protocol	BACnet



CVM-C11-ITF-IN-ETH-ICT2

Power analyzer for panel

Code: M5853100G0000

Technology / Type	RS-485

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
M58531.	CVM-C11-ITF-IN-ETH-ICT2	4	.../5 A | .../1 A	2	2	2	Ethernet	Modbus/TCP | BACnet	31	100...270 Vac/dc
M5853100G0000	CVM-C11-ITF-IN-ETH-ICT2	4	.../5 A | .../1 A	2	2	2	Ethernet	Modbus/TCP | BACnet	31	20...60 Vdc
M58541.	CVM-C11-ITF-IN-485-ICT2	4	.../5 A | .../1 A	2	2	2	RS-485	Modbus/RTU | BACnet	31	100...270 Vac/dc
M5854100G0000	CVM-C11-ITF-IN-485-ICT2	4	.../5 A | .../1 A	2	2	2	RS-485	Modbus/RTU | BACnet	31	20...60 Vdc
M58581.	CVM-C11-MC-IN-485-ICT2	4	.../250 mA	2	2	2	RS-485	Modbus/RTU | BACnet	31	100...270 Vac/dc
M5858100G0000	CVM-C11-MC-IN-485-ICT2	4	.../250 mA	2	2	2	RS-485	Modbus/RTU | BACnet	31	20...60 Vdc
M58561.	CVM-C11-FLEX-IN-485-ICT2	4	100 mV/kA	2	2	2	RS-485	Modbus/RTU | BACnet	31	100...270 Vac/dc
M5856100G0000	CVM-C11-FLEX-IN-485-ICT2	4	100 mV/kA	2	2	2	RS-485	Modbus/RTU | BACnet	31	20...60 Vdc
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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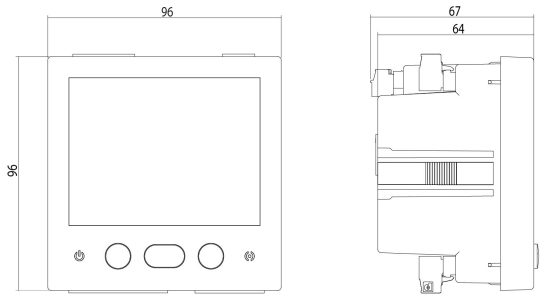


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Power analyzer for panel

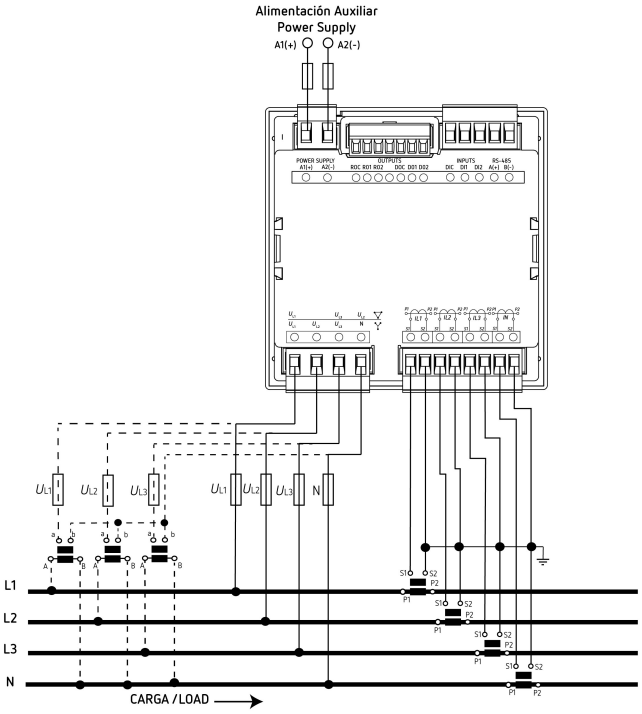
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Dimensions



Connections

Red Trifásica 4 hilos
4-wire three-phase network



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