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## Description

The CVM-C5 is a panel mounted (96 x 96 mm) multimeter that records energy values. Compact and intuitive, with 4-quadrant measurement (Consumption and Generation). The CVM-C5 is suitable for Low Voltage installations, in both 3 and 4-wire three-phase circuits, two-phase circuits with or without neutral, single-phase circuits or ARON connections.

Display features and interface:

- o Quick display of parameters with a single button
- o Clearly displays the electric parameters of the installation
- o Displays the electricity consumption value according to the cost per kWh
- $\circ~\mbox{kgCO2}$  consumption/generation indicator or according to the energy source
- Backlit LCD screen
- Operating hour indicator for preventive maintenance.

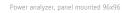
#### Other features:

- o Modbus/RS-485 communications (optional)
- Measurement with CIRCUTOR's MC efficient current transformers or .../5 A, .../1 A or .../333 mV transformers.
- 1 digital output (S0 interface)
- o 1 digital input (tariff or energy source selection)
- o Maximum, minimum values and maximum demand.

# **Application**

- Recording and displaying the consumption of energy from two different sources (network/generator set).
- Generation of an impulse signal associated with the cost, kgCO<sub>2</sub> emissions or savings, according to the consumption or generation of energy.
- Generation of alarms with a transistor output; configurable parameters: Low/High, hysteresis (%), NO/NC, connection/disconnection delay and interlocking.





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# **Specifications**

AC power supply	
Installation category	CAT III 300 V
Consumption	3.5 6 VA
Frequency	50 60 Hz
Nominal voltage	95 240 V ~ ± 10%
DC power supply	
Installation category	CAT III 300 V
Consumption	2 6 W
Nominal voltage	105 272 Vdc ± 10%
Environmental characteristics	
Protection class	IP 51 (Front), IP 20 (rear)
Relative humidity (without condensation)	595%
Storage temperature	-10 +50 °C
Working temperature	-5+45 °C
Mechanical characteristics	
Envelope	Self-extinguishing V0 plastic
Fastening	Panel
Standards	
Certifications	UL/CSA 61010-1 3rd edition
Electrical safety, Maximum height (m)	2000
Standards	IEC 61010, UNE EN 61000-6-2, UNE EN 61000-6-4
Current measurement circuit	
Installation category	CAT III 300 V
Nominal current (In)	/0,333 A
Phase current measuring range	5110% In
Maximum pulse current	1,2 ln
Minimum current measurement	6,66 mV
Voltage measurement circuit	
Installation category	CAT III 300 V
Frequency measuring range	45 65 Hz
Voltage measuring range	5120% Un
Nominal voltage	300V Ph-N, 520V Ph-Ph
Minimum measurement voltage (Vstart)	10 V Ph-N









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#### User interface

Keyboard	3 keys
Display type	LCD
Visible display area size	60X54 mm

#### Digital inputs

Input/output insulation	Optoisolated
Quantity	1
Туре	Potential-free contact

#### Digital transistor outputs

Pulse width	100 ms
Quantity	1
Туре	NPN
Pulse output, time period (Ton / Toff)	100 ms/100 ms
Maximum frequency	5 imp / s
Maximum current	50 mA
Maximum voltage	24 Vdc

### Measurement accuracy

Phase voltage measurement 1%	
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<sup>4-</sup>quadrant measuring unit. Can be used to program the voltage transformer ratio



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# **Dimensions**



