



## CVM-C5-MC-485-C

CVM-C5-MC-485-C

Code: M55894. DESCATALOGADO

- > Power analyzer
- > Protocol: Modbus/RTU
- > Communications: RS-485
- > Transistor output: 1
- > Digital inputs: 0
- > Measuring current Channels: 3
- > Input current: .../250 mA
- > Mounting: Pannel

### 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:

- Quick display of parameters with a single button
- Clearly displays the electric parameters of the installation
- Displays the electricity consumption value according to the cost per kWh
- kgCO<sub>2</sub> consumption/generation indicator or according to the energy source
- Backlit LCD screen
- Operating hour indicator for preventive maintenance.

Other features:

- 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 (SO interface)
- 1 digital input (tariff or energy source selection)
- 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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Multifunctional multimeter for panel

Code: M55894.

## 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% |

### Mechanical characteristics

|                                  |                               |
|----------------------------------|-------------------------------|
| Size (mm) width x height x depth | 96 x 96 x 60.9 (mm)           |
| Envelope                         | Self-extinguishing V0 plastic |
| Fastening                        | Panel                         |
| Weight (kg)                      | 0,22                          |

### Environmental characteristics

|  |                             |
|--|-----------------------------|
| Protection class                         | IP 51 (Front), IP 20 (rear) |
| Relative humidity (without condensation) | 5...95%                     |
| Storage temperature                      | -10... +50 °C               |
| Working temperature                      | -5...+45 °C                 |

### 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)          | .../250A                    |
| Phase current measuring range | 5...110% In                 |
| Maximum pulse current         | 100 A                       |
| Minimum current measurement   | 0,25 A (MC1) / 0,12 A (MC3) |

### Voltage measurement circuit

|                           |               |
|---------------------------|---------------|
| Installation category     | CAT III 300 V |
| Frequency measuring range | 45 ... 65 Hz  |
| Voltage measuring range   | 5 ...120% Un  |



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|                                      |                       |
|--------------------------------------|-----------------------|
| Nominal voltage                      | 300V Ph-N, 520V Ph-Ph |
| Minimum measurement voltage (Vstart) | 10 V Ph-N             |

User interface

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

Digital transistor outputs

|  |               |
|--|---------------|
| Pulse width                            | 100 ms        |
| Quantity                               | 1             |
| Type                                   | 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 | 0,50% |
|---------------------------|-------|

Serial communication

|                   |            |
|-------------------|------------|
| Protocol          | ModBus RTU |
| Technology / Type | RS-485     |

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



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### Dimensions

