

CVM-C10

Power Analyzer for panel



Description

The **CVM-C10** is a power analyzer for 96x96 mm panels with a compact energy log and four-quadrant measurement (consumption and generation). Suitable for medium- and low-voltage installations in three-phase circuits with three or four wires, two-phase circuits with or without neutral, ARON connections or single-phase circuits.

Display features and interface:

- Quick display using a single button
- Capacitive keypad with three keys
- Backlit high-contrast LCD screen

Other features:

- Modbus RS-485 serial channel connection
- 2 transistor outputs configurable for impulses or alarms
- 2 relay outputs configurable as alarms
- 2 digital inputs for selecting three tariffs or detecting logical states
- Allows for tariff selection through communications
- Precision class 0.5 in voltage and current; 1 in power and energy

Applications

- Measurement in medium- and low-voltage installations
- Measurement in three-phase circuits (three or four wires), two-phase circuits (with or without neutral), single-phase circuits and ARON

Technical features

| | | |
|--|---|---|
| Power circuit | Input voltage | 85 to 265 V AC / 95 to 300 V DC |
| Measurement circuit | Voltage | 300 V AC p-n / 520 V AC p-p |
| | Frequency | 50 / 60 Hz |
| | Current | ITF ... /5 A and /1 A MC ... /250 mA |
| | Sampling rate | 64 samples/cycle |
| Accuracy class | V, A | 0.5% |
| | kW, kWh | 1% |
| Display of harmonics, up to the | V, A | 31st order harmonic |
| Communications | Protocol | RS-485 Modbus/RTU |
| | Speed | 9600, 19200, 38400 |
| | Bit, parity, stop | 8, n, 1 |
| Outputs | 2 digital outputs | S0 interface Up to 1000 impulses 2 NPN transistors (3 CT version only) (24 V DC max, 50 mA, 5 imp/s, Max Ton/Toff 100/100 ms) |
| | 2 relay outputs | Max / Min / No / NC / Interlocking 250 VAC, 6 A |
| Inputs | 2 digital inputs | Tariff selection or external alarms NPN, optocoupled |
| Mechanical features | Enclosure | VO self-extinguishing plastic |
| | IP Degree of protection | Front: IP65 Rear: IP20 |
| | Dimensions | 96 x 96 x 60.9 mm |
| Environmental conditions | Operating temperature | -10 °C to +50 °C |
| | Relative humidity | 5% to 95% |
| | Maximum altitude | 2000 m |
| Safety | Class III according to EN 61010 Protection against electric shock by double insulation Class II | |
| Standards | IEC 61000, IEC 61000-4-3, IEC 610004-11, IEC 61000-4-4, IEC 610004-5, Measurement according to MID, UL | |

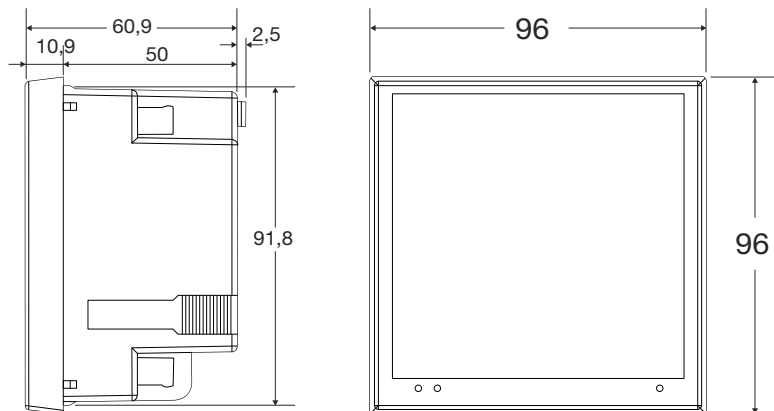
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References

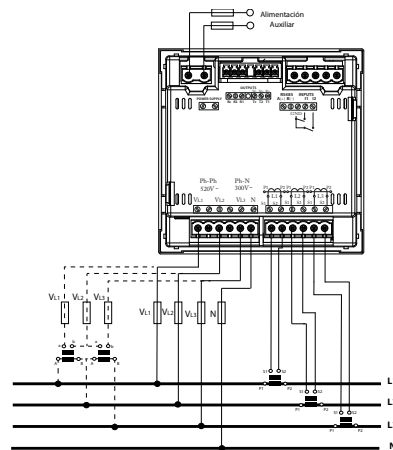
| Current-measurement channels | Current input | Type | Code |
|------------------------------|---------------|-------------------------------|---------------|
| 3 | /5 or /1 A | CVM-C10-ITF-485-ICT2 | M55911 |
| 3 | /250 mA | CVM-C10-MC-485-ICT2 | M55921 |
| 4 | /5 or /1 A | CVM-C10-ITF-IN-485-IC2 | M55942 |

Dimensions

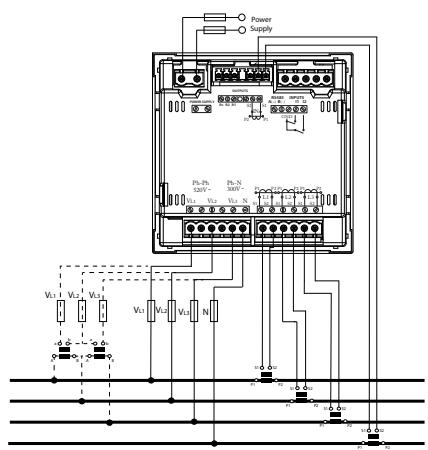


Connections

Three-phase connection + neutral
with or without voltage transformers



Three phase connection + neutral with 4 CT
(only for model CVM C10-ITF-IN)



Single-phase connection
with or without voltage transformers

