

# 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 and 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 communications
- 2 transistor outputs, configurable for impulses or alarms
- 2 relay outputs, configurable for 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 connections.

### Technical features

<b>Power circuit</b>	Power supply voltage	85...265 Vac / 95...300 Vdc
<b>Measurement circuit</b>	Voltage	300 Vac ph-N / 520 Vac ph-ph
	Frequency	50...60 Hz
	Current	ITF ... /5 A & /1 A MC ... /250 mA
	Sampling (samples/cycle)	64
<b>Accuracy class</b>	V, A, W	0,5%
	Wh	1%
<b>Energy Measure</b>	Fullscale per phase	1000 MWh
	Fullscale total	10000 MWh
<b>Display of harmonics, up to the</b>	V, A	31°
<b>Communications</b>	Protocol	RS-485 Modbus/RTU
	Speed	9600, 19200, 38400
	Bit, parity, stop (configurable)	8, n, 1
<b>Outputs</b>	2 digital outputs	S0 interface Configurable, up to 1,000 impulses 2 NPN transistors (Only in version 3 CT) (24 Vdc max., 50 mA, 5 imp/s, Max. Ton/Toff configurable)
	2 relay outputs	Max. / Min / NO/NC / Hysteresis / Interlocking 250 Vac, 6 A
<b>Inputs</b>	2 digital inputs	Tariff selection or external alarms NPN, optocoupled
<b>Build features</b>	Enclosure	V0 self-extinguishing plastic
	Protection degree	Front panel IP 65 Rear IP 20
	Dimensions	96 x 96 x 60,9 mm
<b>Environmental conditions</b>	Operating temperature	-10 ... +50 °C
	Relative humidity	5 ... 95%
	Maximum altitude	2000 m
<b>Safety</b>	Class III according to <b>EN 61010</b> Double-insulated electric shock protection, class II	
<b>Standards</b>	<b>IEC 61000, IEC 61000-4-3, IEC 610004-11, IEC 61000-4-4, IEC 610004-5</b> Measurement according to <b>MID</b> , in accordance with <b>UL</b>	

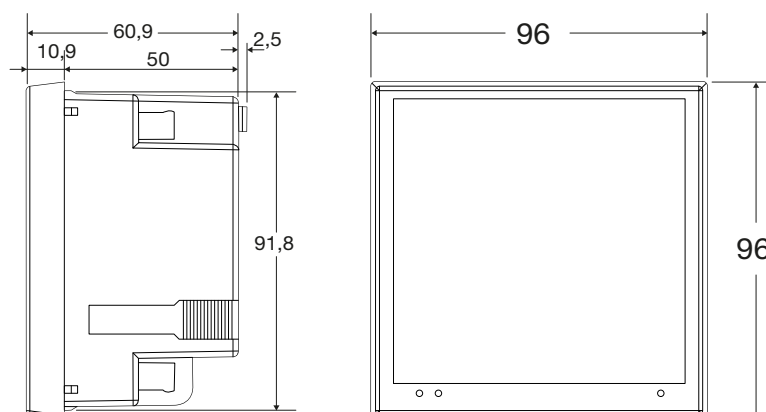
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### References

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

### Dimensions



### Connections

Three-phase + neutral connection + MC3 transformer + with or without voltage transformers

Three-phase + neutral connection with or without voltage transformers

Single-phase connection with or without voltage transformers

