CVM-C5

Multifunctional multimeter for panel

Description

The **CVM-C5** is a panel mounted (96 x 96 mm) multimeter that records e
Compact and intuitive, with 4-quadrant measurement (Consumption and
CVM-C5 is suitable for Low Voltage installations, in both 3 and 4-wire th
two-phase circuits with or without neutral, single-phase circuits or AROI

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
— $kgCO_2$ consumption/generation indicator or according to the energy
— Backlit LCD screen
— Operating hour indicator for preventive maintenance.

Other features:

— Modbus/RS-485 communications (optional)
— Measurement with **5A or 333mV CTs**

   — 1 digital output (S0 interface)
— 1 digital input (tariff or energy source selection)
— Maximum, minimum values and maximum demand.

Applications

— Recording and displaying the consumption of energy from
  two different sources (network/generator set).
— Generation of an impulse signal associated with the cost, $kgCO_2$ 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.

Technical features

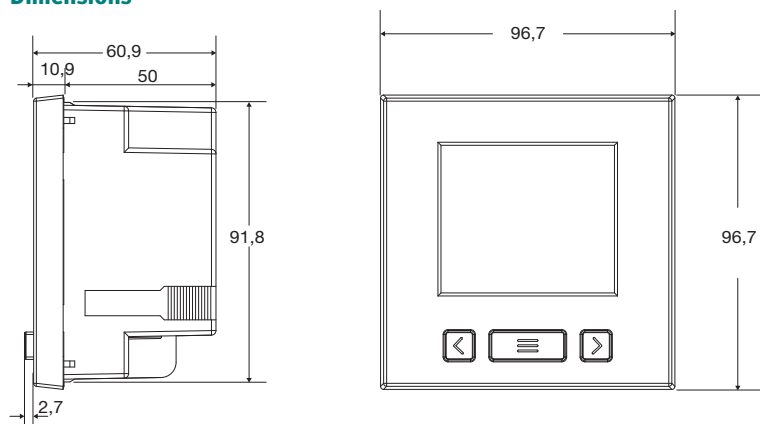|		
Power circuit	Power supply voltage	85-265 Vac / 50...60 Hz 95-300 Vdc
Measurement circuit	Voltage	300 Vac p-n / 520 Vac p-p
	Frequency	45 ... 65 Hz
	Current	.../5 A or .../1 A .../333 mV
	Sampling	32 samples/cycle
Accuracy class	V, I	0,5%
	Power / Energy	1%
Output	1 digital output	S0 interface Configurable, up to 1,000 impulses per kW·h, kvar·h, etc. (24 Vdc max., 50 mA, 5 imp/s, Configurable Max. T_{on}/T_{off})
Input	1 digital input	Tariff selection, NPN, optocoupled
Communications	Protocol	RS-485 Modbus/RTU (depending on model)
	Speed	9600, 19200, 38400
	Bit, parity, stop	8, n, 1
Build features	Enclosure	VO self-extinguishing plastic
	IP protection degree	Front panel: IP 51 Rear: IP 31
	Dimensions	96,7 x 96,7 x 62,60 mm
Environmental conditions	Working temperature	-5...+45 °C
	Relative humidity	5 ... 95%
	Maximum altitude	2000 m
Safety		Class III according to **EN 61010** Double-insulated electric shock protection, Class II
Standards		**IEC 664, VDE 0110, UL 94, IEC 801, IEC 348, IEC 571-1, EN 61000-6-3, EN 61000-6-1, EN 61010-1, CE, UL** certified

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References

Current input	Inputs	Outputs	Communication	Type
.../5 A, .../1 A	1	1	-	**CVM-C5-IC**
.../250 mA	1	1	-	**CVM-C5-MC-IC**
.../333 mV	1	1	-	**CMV-C5-mV-IC**
.../5 A, .../1 A	-	1	RS-485	**CVM-C5-ITF-485-C**
.../5 A, .../1 A	1	-	RS-485	**CVM-C5-ITF-485-I**
.../250 mA	-	1	RS-485	**CVM-C5-MC-485-C**
.../250 mA	1	-	RS-485	**CVM-C5-MC-485-I**
.../333 mV	-	1	RS-485	**CVM-C5-mV-485-C**
.../333 mV	1	-	RS-485	**CVM-C5-mV-485-I**

Dimensions

Connections

Three-phase + neutral connection
with or without voltage transformers

Single-phase connection
with or without voltage transformers