CVM-C10

Power analyzer for panel



Description

The **CVM-C10** is a panel mounted (96 x 96 mm) power analyzer that records energy values. Compact and versatile, with 4-quadrant measurement (consumption and generation). Suitable for Medium or Low voltage installations, in both 3 or 4-wire three-phase circuits, two-phase circuits with or without neutral, single-phase circuits or ARON connections.

Display features and interface:

- Backlit touch-screen (capacitive)
- Analogue display of instantaneous parameters (power, maximum power reached and cos φ or PF)
- Backlit display
- Alarm LED indicator.
- Tariff cost
- Operating hour indicator for preventive maintenance

Applications

- Record the energy consumption from three different sources: network, generator set or photovoltaic energy generation system.
- Generation of an impulse signal associated with the cost, kgCO₂ emissions or savings, according to the consumption or generation of energy.
- Selection of tariffs with digital inputs. Perfect to calculate costs in three different work shifts.
- Programs alarms on any instantaneous parameter measured or calculated.
 Configurable parameters: Low/High, hysteresis (%), NO/NC,
 connection/disconnection delay and interlocking.

Technical features

r supply voltage	85265 Vac / 95300 Vdc 20120 Vdc (SDC model) 300 V ac Ph-N / 520 V ac Ph-Ph		
ency			
	5060 Hz		
nt	ITF /5 A or/1 A MC/250 mA /333 mV		
ling	64 samples/cycle		
Power	0,5%		
Active Energy Class 0,5S (≥ 0,1 I _n) acc. to IEC 62			
ive Energy	Class 1 (≥ 0,1 I _n) acc. to IEC 62053-24		
	31 st		
col	Modbus RTU / BACnet (RS-485)		
b	9600, 19200		
arity, stop	8, n, 1		
tal outputs	S0 Interface Configurable, up to 1000 impulses 2 NPN Transistors (Only in version 3 TS) (24 Vdc max, 50 mA, 16 imp/s, Max T _{on} /T _{off} configurable)		
y outputs	Max. / Min / NO/NC / Hysteresis / Interlocking 250 Vac, 6 A		
tal inputs	Tariff selection or external alarms NPN, optocoupled		
sure	VO self-extinguishing plastic		
ction Degree	Front panel: IP 51 (IP 64 with accesory) Rear: IP 21		
nsions	96.7 x 96.7 x 63.4 mm		
ating temperature	-5+45 °C		
ve humidity	5 95%		
num altitude	2000 m		
CAT III 300 V according to EN 61010 Double-insulated electric shock protection, Class II			
BS EN 61000-6-4, BS EN-61000-6-2, IEC 61000-6-2, IEC 62053-22 (Class 0,5S), IEC 62053-24 (Class 1), IEC 61000, IEC 61000-4-3, IEC 610004-11, IEC 61000-4-4, IEC 610004-5, Measurement according to MID, UL certification			
	col d arity, stop tal outputs y outputs tal inputs sure ction Degree nsions ating temperature ive humidity mum altitude III 300 V according to EN 6 le-insulated electric shock N 61000-6-4, BS EN-61000 2053-24 (Class 1), IEC 6100		





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Other features:

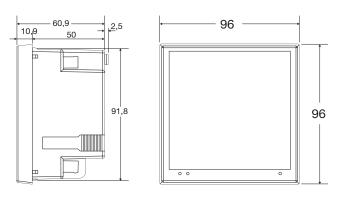
- Modbus RS-485 serial communications
- 2 transistor outputs, configurable for impulses or alarms
- 2 relay outputs, configurable for alarms
- 2 digital inputs for selecting three tariffs or detecting logical states
- Allows for tariff selection through communications
- Precision class 0.5% in voltage, current and power.
- Class 0,5S in active energy and Class 1 in reactive energy.

References

Transistor output	Current measurement channels	Current input	Туре	Code
2	3	/5 or/1 A	CVM-C10-ITF-485-ICT2	M55911
2	3	/250 mA	CVM-C10-MC-485-ICT2	M55921
-	4	/5 or/1 A	CVM-C10-ITF-IN-485-IC2	M55942
2	2	/333 mV	CVM-C10-mV-485-ICT2	M559210000V
2	3	/5 or/1 A	CVM-C10-SDC-ITF-485-ICT2*	M5591100F0000
IP 64 sealing	g joint		IP64-C10-96	M5ZZ5T

^{*} Power Supply 20...120 Vdc

Dimensions



Connections

Three-phase + neutral connection with or without voltage transformers

Single-phase connection with or without voltage transformers

