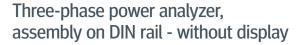
CVM NET





Description

CVM NET is a Power Analyzer for measuring balanced or unbalanced single and three-phase networks. It has been specifically designed for measuring up to 230 electrical parameters and for transmitting this data through the RS-485 communication bus with the Modbus/RTU protocol to the supervision SCADA.

Its main features are:

- DIN rail format of only 3 modules
- Mounted on 72 x 72 mm panel, with adapter front panel (M5ZZF1)
- Measures the current with ... / 5 A and .../250 mA external transformers (MC model), .../333 mV
- Possibility of measuring Medium and Low Voltage networks
- RS-485 communication (Modbus RTU)
- Compatible with PowerStudio / PSS / PSSDeluxe software
- 2 programmable digital outputs
- Universal power supply (optional)
- Sealable

Applications

- Control application on switchboards and low and medium voltage connection points, where an analyzer must be installed on a DIN rail due to space restrictions.
- Alarm control. Maximum value, minimum value and programmable delay.
- Control of active or reactive energy using the impulse output
- Instantaneous data capture, maximum and minimum values of the electrical parameters measured.

Technical features

Power circuit	Rated voltage	230 Vac (-15+10 %) 85265 Vac / 95300 Vdc optional			
	Power supply frequency	5060 Hz			
	Maximum power consumption	3 VA			
Measurement circuit	Rated voltage	300 Vac Ph-N / 520 Vac Ph-Ph			
	Frequency	4565 Hz			
	Nominal current	/5 A or/250 mA,/333 mV			
	Permanent overload	1.2 I _n			
Accuracy class	Voltage, Current	0.5% ± 1 digit			
	Active power, Reactive power	1% ± 1 digit			
	Active energy Reactive energy	1% (Class 1)			
Communications	Protocol	RS-485			
	Communications protocol	Modbus / RTU			
	Speed	1200 / 2400 / 4800 / 9600 / 19200 bps			
	Length	8 No parity / even / odd			
	Parity				
	Bits of parity	1/2			
Output transistors	Type: Isolated transistor	Open NPN collector			
	Maximum operating voltage	24 Vdc			
	Maximum operating current	50 mA			
	Maximum frequency	5 imp/s			
	Impulse duration	100 ms			
Build	Measurement module	DIN Rail 46277 (EN 50022)			
features	Number of modules	3			
Environmental	Operating temperature	-10 °C+50 °C			
conditions	Protection degree	Embedded unit: IP51 Terminals: IP31			
	Humidity (without condensation)	5 95% (non-condensing)			
	Maximum altitude	2000 m			
Safety	IEC 61010 Double-insulated electric shock protection, class II				
Standards	rds IEC 664, VDE 0110, UL 94, IEC 801, IEC 348, IEC 571-1, IEC 61000-6-3, IEC 61000-6-1, IEC 61010-1, IEC 61000-4-11, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC-61000-4-5, EN 55011,				





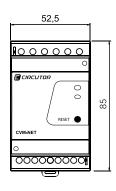
CVM NET

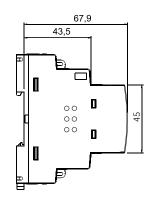
Three-phase power analyzer, assembly on DIN rail - without display

References

Current input	Protocol	Communications	Туре	Code	
/5 A	Modbus/RTU	RS-485	CVM NET ITF-RS485-C2	M54B21	
/250 mA	Modbus/RTU	RS-485	CVM NET-MC-ITF-RS485-C2(*)	M54B31	
/333 mV	Modbus/RTU	RS-485	CVM-NET-mV-RS485-C2	M54B310000V00	
Panel adapter for CVM NET (72 x 72 mm)			Panel adapter	M5ZZF1	
(*) Requires MC efficient transformers.					

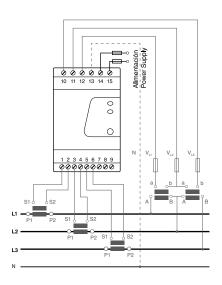
Dimensions



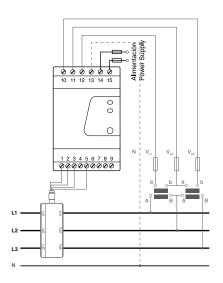


Connections

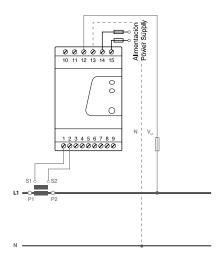
Three-phase + neutral connection 3 voltage transf. + 3 current transf.



Three-phase + neutral connection **MC** efficient transformer



Single-phase connection



Coding table

М	5	Х	X	Х	X	0	0	х
Cod	le					Inte	rnal le	†
Power supply voltage		Standard (230 Vac)				0		
		85285 Vac 95300 Vdc				С		

