

Circutor CVM-C4 Multi Function Panel Mount Multimeter User Guide

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CVM-C4
POWER ANALYZER

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CVM-C4 Multi Function Panel Mount Multimeter

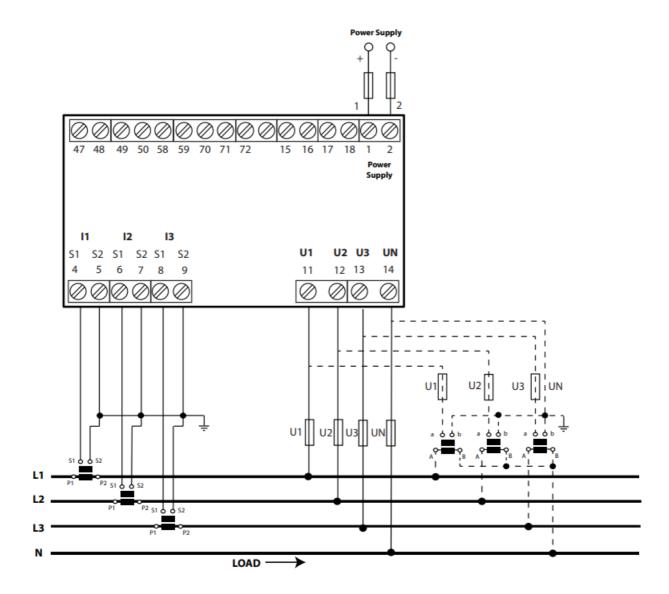


Terminal connections designations	
1	L/+, Power supply
2	N/-, Power supply
4	I1 S1, Current input L1
5	I1 S2, Current input L1
6	I2 S1, Current input L2
7	I2 S2, Current input L2
8	I3 S1, Current input L3
9	I3 S2, Current input L3
11	U1, Voltage input L1

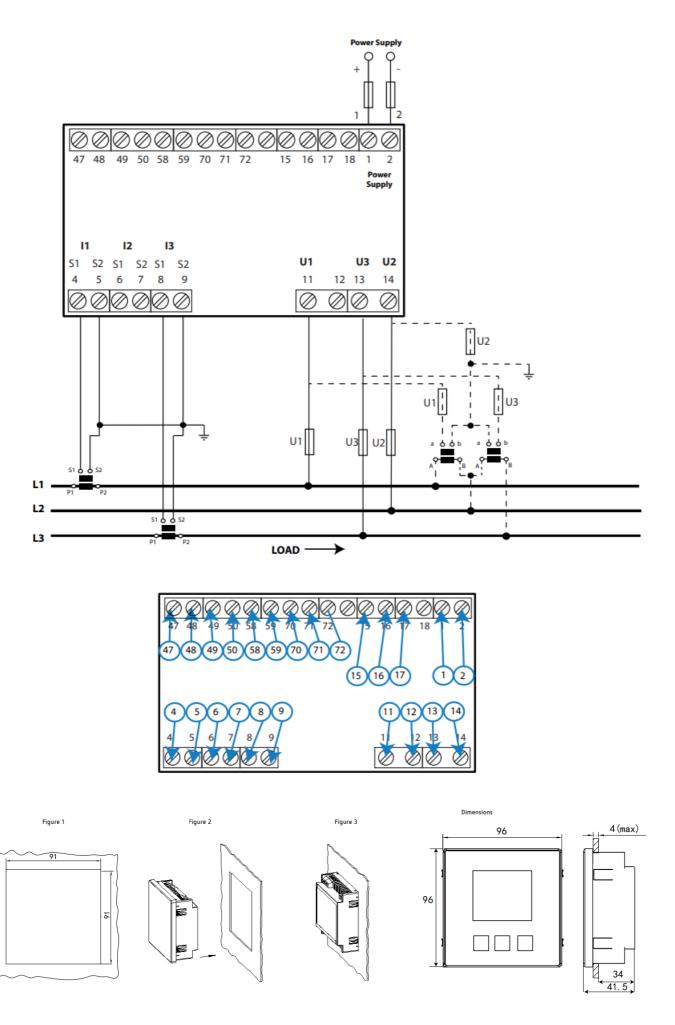
12	U2, Voltage input L2
13	U3, Voltage input L3
14	UN / U2, Voltage input N/L2
15	RO1, Relay output 1 (Common)
16	Relay output 1 (NO) / Relay output 2 (Common)
17	RO2, Relay output 2 (NO)
47	+, Impulse output
48	-, Impulse output
49	+, Impulse output
50	-, Impulse output
58	A , RS-485
59	B , RS-485
70	C, Common digital inputs
71	DI1, Digital input 1
72	DI2, Digital input 2

Connections

Measuring three-phase networks with a 4-wire connection.



Measuring three-phase networks with a 3-wire connection.



This manual is a CVM-C4 installation guide. For further information, please download the full manual from the CIRCUTOR web site: www.circutor.com



The device must be disconnected from its power supply sources (power supply and measurement) before undertaking any installation, repair or handling operations on the device's connections. Contact the after-sales service if you suspect that there is an operational fault in the device The device has been designed for easy replacement in case of malfunction.

The manufacturer of the device is not responsible for any damage resulting from failure by the user or installer to heed the warnings and/or recommendations set out in this manual, nor for damage resulting from the use of non-original products or accessories or those made by other manufacturers.

DESCRIPTION

The CVM-C4 is a device that measures, calculates and displays the main electrical parameters in single-phase and three-phase mains.

The device has RS-485 communications, relay outputs, impulse outputs and digital inputs.

Current measurement is indirectly carried out by /5A or /1A transformers.

INSTALLATION

The device should be installed inside an electric panel or enclosure, and panel-mounted.



Take into account that when the device is connected, the terminals may be hazardous to the touch, and opening the covers or removing elements may provide access to parts that are dangerous to the touch. Do not use the device until it is fully installed

To install it, take the following steps:

- 1. Make a cut in the panel, according to the dimensions in Figure 1.
- 2. From outside, insert the device into the panel cut-out (Figure 2).
- 3. Fully insert the device and fasten it securely by using the spring (Figure 3)

CONNECTION

The device should be connected to a power circuit protected by a fuse with a maximum rated current of 0.25 A. If the voltage to be measured is higher than the rated input voltage, a voltage transformer must be connected to the device.

If more than one device is connected to the current transformer, they must be connected in series.

Before disconnecting the current measurement connection cables, be sure to disconnect the transformer's primary cables and bridge the secondary.

The device can operate in three-wire, three-phase mode or four-wire, three-phase mode, the user selecting the corresponding connection mode according to the installation. An incorrect type of connection or an error in phase sequence may cause measurement errors.

Technical features

AC Power supply"	
Rated voltage	80 270 V –
Frequency	50/60 Hz

Consumption	6 18 VA		
Installation category	CAT III 300V		
DC Power supply"			
Rated voltage	80 270 V=_ 18 36 V		
Consumption	1.5 1.8 W 1.8 2.2 W		
Installation category	CAT III 300V		
Voltage measurement circuit			
Rated voltage (Un)	100 277 V, vc, – t 8%		
Frequency measurement margin	45 65 Hz		
Overload	1.2Un continuo / continuous, 2Un instantaneo / instantaneous (1min)		
Consumption	< 0.2 VA (por fase / per phase)		
Impedance	> 1.7 MO		
Installation category	CAT III 300V		
Current measurement circuit			
Rated current (In)	1 A/ 5 A —		
Frequency measurement margin	45 65 Hz		
Overload	1.2In continuo / continuous, 10In ins tantaneo / instantaneous (55)		
Consumption	< 0.2 VA (por fase / per phase)		
Impedance	< 20 mO		
Installation category	CAT III 300V		
Accu racy			
Voltage measurement	0.2 % t 1 digito / digit		
Current measurement	0.2 % t 1 digito / digit		
Active and Reactive Power mea surement	0.5 % t 2 digitos / digits		
Relays outputs			
Quantity	2		
Contact capacity (resistive)	CA/AC: 5A / 250V - , CC/DC: 5A / 30V -=		

Max. voltage open contacts	277V - / 30V=
Maximum current	5 A
Maximum switching power	1385 VA/ 150 W
Electrical life (250V -/ 5A)	11105
Digital inputs	
Quantity	2
Туре	Contacto libre de potencial / Potential free contact
Insulation	3.5 kV rms
Maximum short-circuit current	4 mA
Maximum voltage in open circuit	30 V
Impulse output	
Туре	Pulso pasivo / Passive pulse
Maximum voltage	27 V
Maximum current	27 mA
Maximum frequency	10 Hz
Minimum pulse width	80 mA
RS-485 communications	
Communications protocol	Mod bus RTU
Baud rate	2400- 4800 – 9600 -19200 bps
Data bits	8
Stop bits	1- 2
Parity	sin, par, impar /without, even, odd
User interface	
Display	LCD
Keyboard	3 teclas / keys
Environmental features	
Operating temperature	-10°C +60°C
Storage temperature	-20°C +70°C
Relative humidity	5 95%

Maximum altitude	2000 m	
Protection degree	Frontal / Fro	ont: IP54, Posterior/ Rear case: IP20
Pollution degree		
Mechanical features		
filthening II		
1,2, 4 9,1118, 4750, 58, 59,70 72	2.5 mm?	0.5 Nm Plano / Flat (SZS 0.6×3.5)
Dimensions	96 x 96 x 41.5 mm	
Weight	265 g.	
Enclosure	pc + abs	

Standers

IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61010-1

Depending on model:

Key	
<	Previous screen
>	Next screen
	Long keystroke (>3s): Enter in configuration menu

Note: Device images are for illustrative purposes only and may differ from the actual device.

Technical service

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<u>Circutor CVM-C4 Multi Function Panel Mount Multimeter</u> [pdf] User Guide CVM-C4, Multi Function Panel Mount Multimeter, Panel Mount Multimeter, Multi Function Mount Multimeter, Multimeter, Multimeter

References

- 9 Productos y soluciones integrales para la eficiencia energética eléctrica
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