

CVM-B100 CVM-B150

Much more than a power analyzer

The new generation of CVMs







Technologically advanced

- CVM-B can be integrated with remote management systems (XML, WEB, SNMP)
- Customisable display of parameters, in accordance with configurable ratios
- Elegant design, with a colour VGA graphics display and tactile buttons, as well as a high front panel protection (IP65 * with sealing joint).

and...

- Displays the electrical consumption by tariff in your country's currency, according to three tariffs or the source of consumed electrical energy.
- Calculates the indicator of emitted or avoided kgCO² for each tariff.



"Accurate, innovative and elegant measurement"

CVM-B100 and CVM-B150 are panel mounted equipment, with the following dimensions: 96x96 mm and 144x144 mm, respectively. The user can enjoy a new concept of power analyzers based on the new SCV interface (slide, choose & view) with 3.5" and 5.6" colour VGA screens, which have been fully and exclusively designed by CIRCUTOR. CVM-B series offers top-performance features and their measurement engine allows the user to analyse countless electrical parameters, as well as the harmonic breakdown in terms of voltage and current, up to the 50th order harmonic.

Thanks to the CVM-B's expansion possibilities, these equipment are more versatile, and they can even display data gathered from other systems on their interface. They offer endless possibilities as measurement terminals during on-site electric energy management and monitoring processes.

Versatile

expandable, accurate, intuitive and customizable

The NEW and RENEWED image of the CVM analyzer range is one of the keys to its evolution, offering a discreet, elegant and industrial design. All details of the front panel have been carefully designed, offering the best performance features in this segment to the customer.







Integral parameter measurement with analogue display *V, A, kW, kW-h, hours, kvar, cos φ, kgCO₂, Costs*



Quick display on the screen with the SCV interface



4-quadrant measurement



Neutral current measurement



Modular, expandable

New redesigned interface

- Screen with SCV interface (Slide, Choose & View)
- Backlit touch-screen (capacitive)
- High-resolution colour display
- Red high bright alarm LED indicator

- CVM-B analyzers have a modern design and they feature many different options, thanks to their expansion modules.
- CVM-B can be expanded and they are prepared for future evolutions, i.e., they can adapt to new technologies.

Parameters and variables

- kW-h, hours, Cost, kgCO₂
 Energy, Hours, Cost and Emissions
- T1/T2/T3
 - 3 Tariffs (digital input selection) or communications
- V, A, W, VA, var, varL, varC, Demand, PF, cosφ Instantaneous parameters, three-phase and by phase. Harmonics up to the 50th order

And more....

- · Expandable high-end CVM range
- Indirect power analyzer with 4-quadrant measurement
- Compact enclosure: 96x96 and 144x144 mm
- Touch keyboard
- IP65 front panel protection
- VGA Colour Screen
- SCV (Slide, Choose & View) Screen interface
- 4 digital outputs
- Universal power supply 85...265 Vac / 95...300 Vdc
- 5 Voltage inputs (3 phases + Neutral + Earth)
- 300 Vac P-N / 520 Vac P-P
- 4 channels current inputs (/5 or /1, /250mA)
- 0.2 class in voltage and current
- 0.5 class in power
- 0.5S class in Energy

Technical features

Power circuit	100230 V _{ac} +/-15% / 100.	260 V _{dc} +/-15%	
	AC Frequency	4565 Hz	
	AC Consumption	min. 4 VA / max. VA (25 VA with all	
		expansion options)	
	DC Consumption	min. 4 VA / max. VA (25 W with all expan-	
		sion options)	
Voltage measure-	Voltage range	12.7 V400/600 V p-n / p-p	
ment circuit	Frequency	40 / 70 Hz (360440 Hz)	
	Measurement margin	2.54 %120% of the Un for	
		Un=500Vac (p-n)	
	Admissible overvoltage	750 Vac	
	Maximum consumption (limited current)	< 0.1 VA	
Current	Current measurement	4 (3 phases +1 Neutral)	
measurement	channels		
circuit	Input current	/5A or/1A/250mA (MC-ITF)	
	Minimum current for class	250 mA	
	Start-up current	10 mA	
	Measurement margin	0.010 8.48 A	
	Allowable overload	10A permanent, 100 A t<1s	
	Consumption	< 0.15 VA	
Maximum transfor-	Primary V: 6,000,000 (pha	se-neutral)	
mation ratios	Primary A: 50,000		
	Product of Primary V x Prin	nary A<300,000,000,000	
Maximum meter value (total)	Yes (Primary A / Secondary A) <1000 (2 GW)		
	Yes (Primary A / Secondary A) >=1000 (2 TW)		
Accuracy class	Class 0.2 V, A / Class 0.5 +/- 1 digit for power / class 0.5S for active		
	energy / class 2 for reactive energy		
Display of harmonic	s, up to the 50th order harm	nonic	
Standards	IEC 62053-22, ANSI (class 0.5S), IEC 62053-23 ANSI C12.1 (class 2),		
	IEC 61010, IEC 61000, UNE-EN 55022 Measurement in accordance		
	with MID, design in accordance with UL, IEC 61000-4-2, IEC 61000-		
	4-3, IEC 61000-4-11, IEC 61000-4-4, IEC 61000-4-5		

References

96x96

30X30		
Current measuring secondaries	Туре	Code
/5 , /1A or 250mA	CVM-B100-ITF-RS485-ICT2	M56011
144x144		
Current measuring secondaries	Туре	Code

www.circutor.com

CIRCUTOR, SA - Vial Sant Jordi, s/n 08232 Viladecavalls (Barcelona) Spain Tel. (+34) **93 745 29 00** - Fax: (+34) **93 745 29 14** central@circutor.es









