



CVM-E3-MINI-WiEth

Power analyzer with Wi-Fi and Ethernet communications



CVM-E3-MINI-WiEth

Easier than ever

The **CVM-E3-MINI-WiEth** power analyzer lets you gather information on the energy consumption and electrical parameters of your installation quickly and easily. It has **Ethernet** and **Wi-Fi** communications that provide real-time information to the Energy Management System (EMS), without having to install wiring for communications.

Its **Bluetooth** connectivity can be used to set up communications parameters (Ethernet or Wi-Fi) through the free **MyConfig** app on your mobile or tablet, without having to physically access the device.



Wi-Fi



Ethernet



Bluetooth

CVM-E3-MINI-ITF-WiEth
Via transformers .../5A
or .../1A

CVM-E3-MINI-MC-WiEth
Via efficient transformers
.../250mA

CVM-E3-MINI-FLEX-WiEth
Via flexible sensors
(Rogowski)

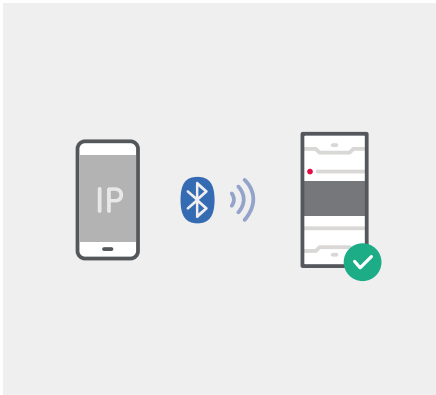
You don't need anything else



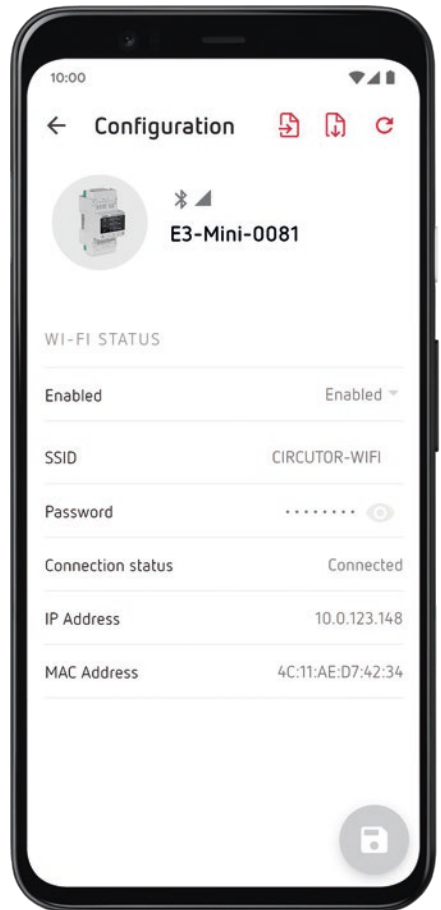
Bluetooth connection

Use Bluetooth connectivity to program Ethernet or Wi-Fi communications without the need for a computer.

With the free **MyConfig** app, you can set up the communications on your power analyzer quickly and easily.



Easily set up its communications through bluetooth.



MyCONFIG

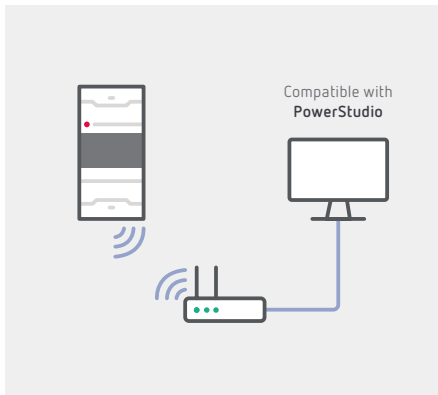
The free app for setting up CIRCUTOR devices via Bluetooth.





Wi-Fi connection

Connect the analyzer to your Wi-Fi network and start registering all your consumptions and electrical parameters from your installation. Check the Wi-Fi coverage and assigned IP address directly from its display.

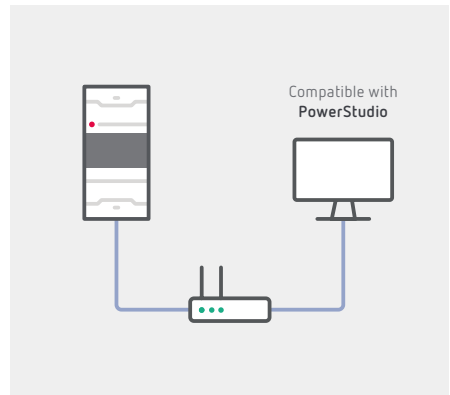


Manage your installation wirelessly.



Ethernet connection

Connect the analyzer to your Wi-Fi network and start registering all your consumptions and electrical parameters from your installation. Quickly check the device IP and MAC address by its display any time.



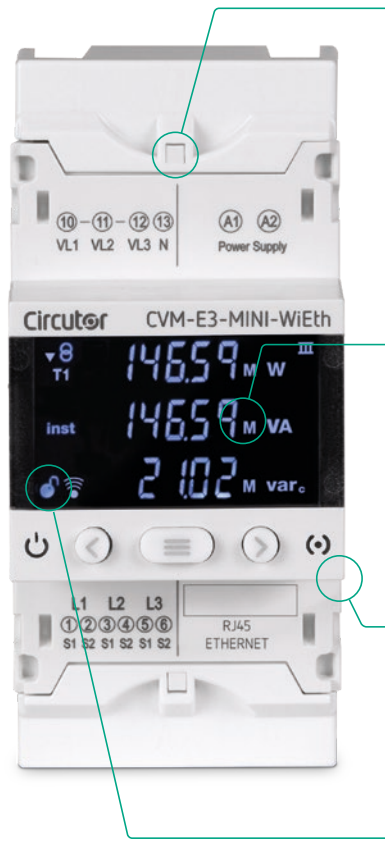
Connect the analyzer to the local network and start measuring.

Monitor any parameter in your installation

Measure over 250 electrical parameters in real time (RMS, maximum and minimum values) and record active, reactive inductive or capacitive and apparent energy for consumption or generation facilities (4 quadrants). Record parameters such as THD% and individual harmonics (voltage and current) up to 31st to check the quality of your consumption.

New needs in the sector

CVM-E3-MINI-WiEth adapts to new international regulations for measuring and managing energy efficiency, providing information on the production costs, CO₂ emissions and operating hours for preventive maintenance.



New system with Plug&On sealable terminals

Protects any user against direct contact with live components, ensures the accuracy of the measurements by sealing the terminals and detect potential tampering.

High-contrast display

Ensures the data can be seen up to 3 m away, avoiding the need to open the panel to check any electrical parameter.

DIN Rail Adaptable to panel
Features an optional accessory for connecting in a 72x72 mm panel.

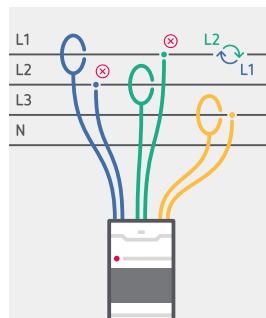
Locking

Lockout from
PowerStudio

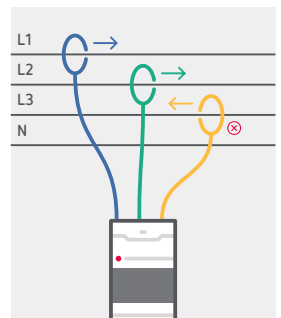
Remotely solve configuration errors

Solve any error in the programming or physical wiring of the analyzer through the **PowerStudio** software. Saves on indirect costs in commissioning and configuration.

Voltage and current phase
connection error



Error installing current sensors



Technical specifications

Power supply circuit	Nominal voltage	100... 240 ±10% VAC/DC
	Frequency	50... 60 Hz
Voltage measurement circuit	Nominal voltage (U_n)	300 VAC (p-N)/520 VAC (P-P)
	Voltage measuring range	5...120% U_n
	Frequency measuring range	45...65 Hz
Current measurement circuit	Nominal current (I_n)	.../5 A,.../1A,.../250mA and FLEX Clamps
	Minimum measurement current (I_{start})	0.2% I_n
	Current measurement margin	2...120% I_n
Accuracy of the measurements	Voltage measurement	0.5% ± 1 digit
	Current measurement	0.5% ± 1 digit
	Active energy measurement	$I < 0.1 I_n$ = Class 1 - $I > 0.1 I_n$ = Class 0.5
	Reactive energy measurement	Class 2
Communication Ethernet	Type	Ethernet 10BaseT - 100BaseTX autodetectable
	RJ45	Connector
	Protocol	Modbus TCP
Wi-Fi Communications	Band	2.4 GHz (Range: 2.4... 2.5 GHz)
	Standards	IEEE 802.11b/g, IEEE 802.11n (up to 150 Mbps)
Bluetooth Communication	Protocols	Bluetooth v4.2 BR/EDR and BLE specification
	Radios	NZIF receiver with 97 dBm sensitivity Class-1, class-2 and class-3 transmitter Adaptive Frequency Hopping (AFH)
User interface	Display	High-contrast, backlit custom LCD
Environmental characteristics	Operating temperature	-5... +45 °C
	Storage temperature	-10... +50 °C
	Relative humidity (without condensation)	5... 95%
	Maximum altitude	2000 m
	Protection rating	IP30 – Front: IP40
Mechanical characteristics	Dimensions	52.5 x 118 x 74 mm
	Weight	300 g
	Enclosure	Self-extinguishing V0 plastic
	Fastening	DIN rail
Standards	IEC 61010-1, IEC 61326-1, IEC 61557-12, IEC 61010-2-030 (UNE EN 61000-6-3, UNE EN 6100-6-1, UNE EN 6100-6-2, UNE EN 61000-6-4), UL94, 2014/53/EU Radio Equipment Directive	

Table of references

Type	Code	Isolated current input	Current input
CVM-E3-MINI-ITF-WiEth	M56470.	Yes	.../1 A, .../5 A
CVM-E3-MINI-MC-WiEth*	M56480.	Yes	.../250 mA
CVM-E3-MINI-FLEX-WiEth**	M56490.	Yes	Rogowski
Panel adapter	M5ZZF100000E3.	Panel adapter for CVM-E3-MINI (72 x 72mm)	

(*) Requires efficient MC series transformers - (**) Requires FLEX-MAG model flexible clamps



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