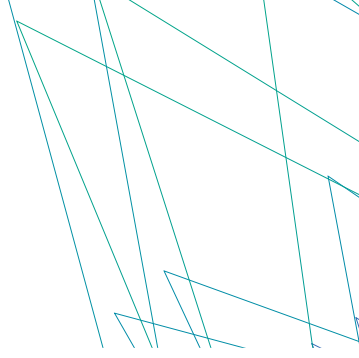




MEASUREMENT AND CONTROL

# CVM-E3-MINI-WiEth

Power analyzer with Wi-Fi and  
Ethernet communications

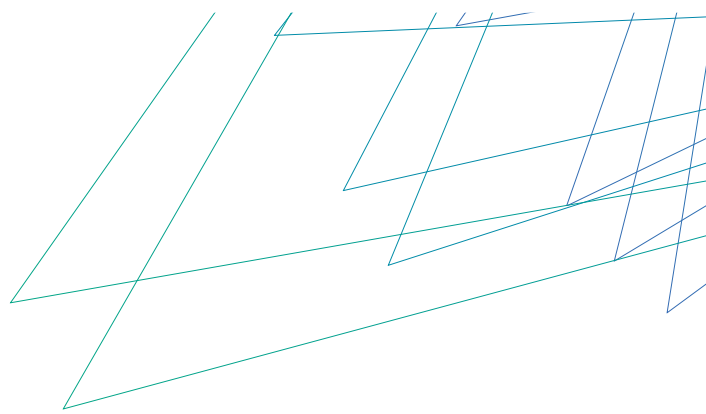


# CVM-E3-MINI-WiEth

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)

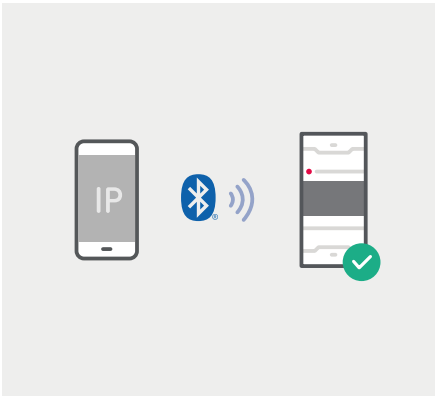
# You don't need anything else



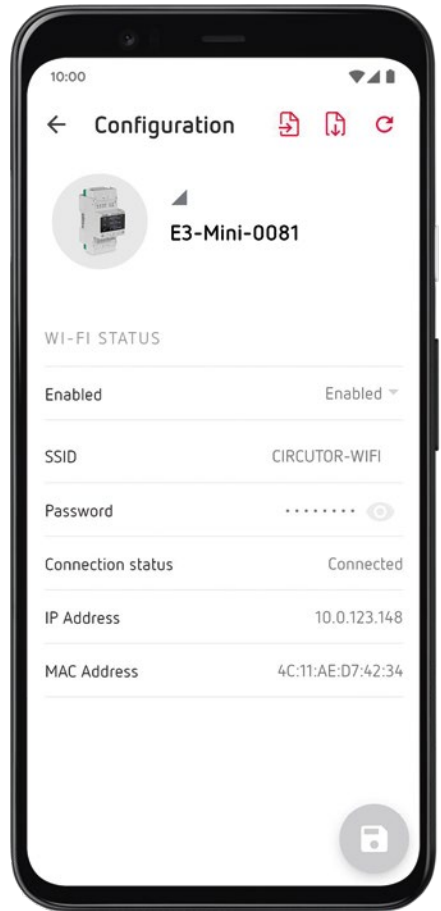
## Bluetooth connection

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

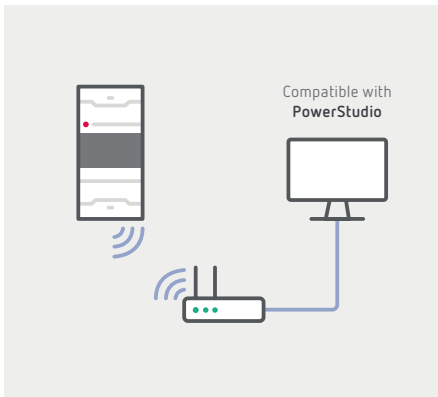
The free app for setting up CIRCUTOR devices via Bluetooth.





## 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.

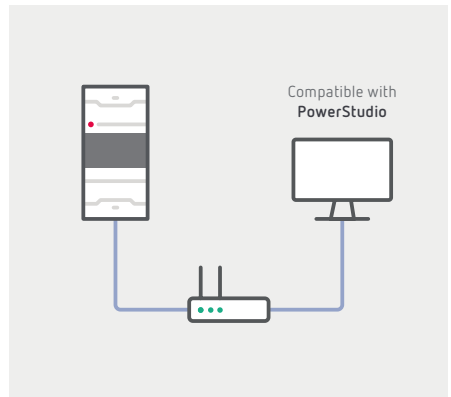


*Manage your installation wirelessly.*



## 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.



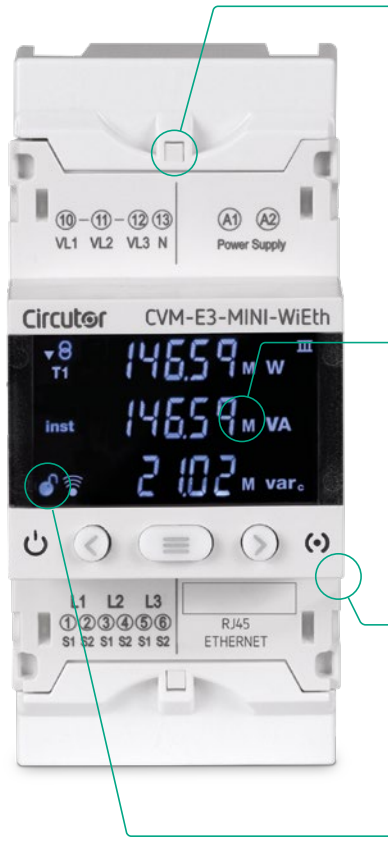
*Connect the analyzer to the local network and start measuring.*

### 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 31<sup>o</sup> 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, CO<sub>2</sub> 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.

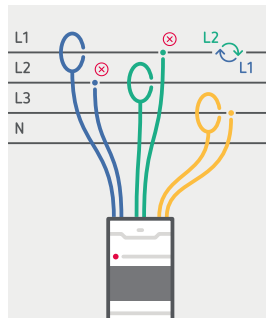
### Locking

### Lockout from PowerStudio

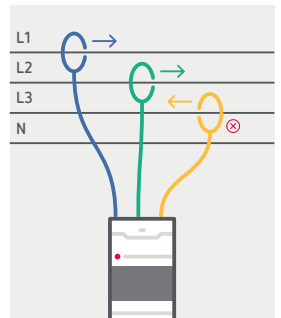
### Remotely solve configuration errors

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

<b>Power supply circuit</b>	Nominal voltage	100... 240 ±10% VAC/DC
	Frequency	50... 60 Hz
<b>Voltage measurement circuit</b>	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
<b>Current measurement circuit</b>	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% $I_n$
<b>Accuracy of the measurements</b>	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
<b>Communication Ethernet</b>	Type	Ethernet 10BaseT - 100BaseTX autodetectable
	RJ45	Connector
	Protocol	Modbus TCP
<b>Wi-Fi Communications</b>	Band	2.4 GHz (Range: 2.4... 2.5 GHz)
	Standards	IEEE 802.11b/g, IEEE 802.11n (up to 150 Mbps)
<b>Bluetooth Communication</b>	Protocols	Bluetooth v4.2 BR/EDR and Bluetooth LE specification
	Radios	NZIF receiver with 97 dBm sensitivity Class-1, class-2 and class-3 transmitter Adaptive Frequency Hopping (AFH)
<b>User interface</b>	Display	High-contrast, backlit custom LCD
<b>Environmental characteristics</b>	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
<b>Mechanical characteristics</b>	Dimensions	52.5 x 118 x 74 mm
	Weight	300 g
	Enclosure	Self-extinguishing V0 plastic
	Fastening	DIN rail
<b>Standards</b>	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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