



Shelly EM gen3 energy measurement controller



Modelis: EMgen3

Gamintojas: SHELLY

EAN: 3800235261873

Prekės kodas: 21871

89.00€

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The Shelly EM Gen3 is not only an accurate energy monitor, but also a powerful tool for managing high power consumption devices for cost optimization. With advanced features, easy installation and innovative technology, this controller is the perfect solution for both single-phase homes and more demanding buildings. With the Shelly app, you can monitor your home's energy today - gain control, save money and drive efficiency!

Monitor and optimize energy consumption

The Shelly EM Gen3 controller is an advanced tool for smart energy management in your home. By precisely monitoring the power consumption of connected devices, it allows you to identify consumption patterns and optimize the operation of equipment. The device can be easily installed in

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standard electrical boxes, behind outlets or light switches, making it an ideal solution even for places with limited space. With Shelly EM Gen3, you can significantly reduce your electricity bills while ensuring performance and energy efficiency.

Wi-Fi and Bluetooth connectivity - full control without an additional HUB

The controller supports Wi-Fi and Bluetooth connections, allowing you to quickly and easily integrate it into your home network without the need for additional devices. You can also use it as a Bluetooth gateway, which increases flexibility in managing other devices.

Advanced control features

The Shelly EM Gen3 offers the ability to connect up to two current transformers without the need for additional wiring. With a built-in voltage-free contact, you can control high-power consumption devices such as heaters, heat pumps and hot tubs. What's more, the smart scenes function allows integration with other Shelly devices, which opens the door to creating personalized energy-saving scenarios.

Local data storage and analysis

The controller records data locally in one-minute increments, storing it for up to 10 days without a connection to the cloud. Once synchronized with the cloud, the user can access historical data from the last 365 days. Such functionality allows for detailed analysis of energy consumption over a long period and easy tracking of expenses.

Full support for scripting and future Matter technology

Shelly EM Gen3 fully supports scripting, allowing local control and customization of functions. The device is designed with the future in mind - with double the memory compared to the Plus series and Shelly's advanced chip, it allows you to upgrade to Matter and seamlessly integrate with other devices. In the Shelly Smart Control app, you can create virtual devices, integrating third-party products into a cohesive management system.

Included

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- energy measurement controller
- current transformer
- user manual

Manufacturer	Shelly
Model	EM gen3
Dimensions	37 x 42 x 16 mm
Weight	EM Gen3: 23 g; CT 50A: 50 g

Maximum tightening torque of screw terminals	0.4 Nm
Wire cross section	0.2 to 2.5 mm ² (solid, multi-stranded, sleeve lugs)
Wire stripping length	6 to 7 mm
Mounting	Wall console, electrical cabinet
Housing material	Plastic
Case color	White, dark gray
Color of connectors	Black
Ambient temperature	-20 °C to 40 °C
Ambient humidity	30% to 70% RH
Maximum altitude	2000 m
Voltage	110 - 240 V~ 50/60 Hz
Power consumption	1.2 W
External protection	2 A, trip characteristic B or C, breaking capacity 6 kA, energy limit class 3
Maximum voltage	240 V~
Maximum current	2 A/240 V~
Voltage range	110-240 V~ 50/60 Hz
Voltage accuracy	±2%
Current range	0 - 80 A

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Accuracy of current	±2% (2 - 50 A); ±2% (1 - 2 A); ±5% (0 - 1 A)
Compatible current transformers	CT 50A (included), CT 80A
Measurement functions	Active and apparent power, active and apparent energy, power factor, basic active and reactive energy
Cross-channel calibration - minimum load	500 W
No-load threshold	30 VA per channel
Data storage	At least 10 days with a resolution of 1 minute
Data export	CSV for PQ values, JSON via RPC
Internal temperature sensor	Yes
WiFi protocol	802.11 b/g/n
Wi-Fi RF bandwidth	2412 - 2472 MHz
Maximum RF Wi-Fi power	20 dBm
Wi-Fi range	Up to 30 m indoors and 50 m outdoors (depending on conditions)
Bluetooth protocol	4.2
Bluetooth RF band	2402 - 2480 MHz
Maximum Bluetooth RF power	4 dBm
Bluetooth range	Up to 10 m indoors and 30 m outdoors (depending on conditions)
Processor	ESP-Shelly-C38F
Flash memory	8 MB
Schedules	Yes
Webhooks (URL shares)	20 with 5 URLs per webhook
Scripts	Yes
MQTT	Yes
Encryption	Yes (transport level)
Authentication	Yes (application and transport level)
Dedicated application	Shelly Smart Control

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Pobierz instrukcję: <https://files.innpro.pl/Shelly/3800235261873>, GPSR Link: https://psr-assets.innpro.pl/smarthome/sg_smarthome_controls.pdf, Gross weight: 90, Net weight: 72, Box length: 10,50, Box width: 5,00, Box height: 5,00, Information about data generation: <https://dataact.innpro.pl/shelly/3800235261873>

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