

Item no.: 388092

ALRLPROEM-50 - PRO EM-50

from **101,64 EUR**

Item no.: 388092
shipping weight: 0.30 kg
Manufacturer: Shelly



Product Description

Shelly PRO EM-50 Item no.: ALRLPROEM-50 EAN: 3800235268148 Manufacturer: Shelly (Allterco Robotics LTD) Manufacturer no.: Shelly Pro EM-50 Radio technology: Wi-Fi
WLAN Product information "Shelly PRO EM-50" Wi-Fi energy meter with contactor control: Shelly PRO EM-50 is a single-phase dual-channel energy meter for DIN rail mounting. It has an integrated switch with potential-free contacts for contactor control. LAN, WLAN and Bluetooth connection for high security and reliability Displays the accumulated energy as well as the instantaneous values of voltage, current, active and apparent power per phase in real time. Power measurement - two independent measurement channels for the same phase 4-quadrant measurement with visual pulse display of energy consumption Class B measurement accuracy (IEC 62053-21) Suitable for photovoltaics Saves the data in a non-volatile memory that can be retrieved at 1-minute intervals for up to 60 days. No hub required! Easy control via the Shelly Smart Control App, most platforms and protocols, and voice assistants. Use it with Alexa, Home Assistant or your favourite automation system. Supports scripting, webhooks, MQTT, WebSocket, HTTPS, UDP, TLS and custom certificates & Modbus TCP protocol* Package contains 2 pcs 50 A current transformers WHY PRO EM-50? Your intelligent solution for precise energy monitoring and control Shelly PRO EM-50 is a DIN-mountable single-phase energy meter with integrated switch for contactor control. With 1% accuracy in measuring active energy, Shelly Pro ??-50 can be used to monitor consumption and control any household appliances, circuits and office equipment. The device has a data history of 60 days at 1-minute intervals. In addition, its scripting functions enable the execution of complex scenes and offer more comprehensive monitoring options. WLAN, LAN and Bluetooth connectivity: Simultaneous use of Ethernet and WLAN. MQTT, incoming and outgoing WebSocket, UDP, mTLS support. Accuracy class B (active energy): Shelly Pro EM-50 has a measurement accuracy of 1%. Integrated switch: 2 A dry contact switch for contactor control MODBUS support: Enables quick and easy use in existing industrial plants. Power measurement: Monitors two independent channels on the same phase Scripting: Shelly Pro EM-50 fully supports mJS scripting, so you can create more features and functions. Application examples: Perfect for SME owners If you own a small or medium-sized business, you have probably struggled with excessive energy consumption at some point. Some machines and appliances are switched on all the time. With the Shelly PRO EM-50, you can measure and reduce consumption with maximum precision by switching off consumers such as water dispensers, laminators and lighting at night. The smart device can also be used for preventive measurements by monitoring the abnormal behaviour of HVAC systems, air compressors, refrigerators and other appliances Renewable energy ecosystem at home If you have a photovoltaic (PV) system at home, Shelly PRO EM-50 can help you measure the grid and imported energy from renewable sources. It also has a configurable load control that allows you to redirect excess energy from renewable sources to electronic devices in your home and optimise your energy consumption. For example, you can use the Shelly PRO EM-50 to charge your car or household appliances when your PV system is providing excess energy. Shelly Smart Control is here! An app to control your rooms, your energy consumption and your expenses. Customise your dashboards, get detailed consumption reports and keep track of your energy bills. Full compatibility: Shelly devices are compatible with Alexa, Google Home, Android and iOS. Together with the voice assistant, you can control Shelly devices with your voice! Features: - Mounting: DIN rail - Screw terminals max. torque: 0.4 Nm / 4.43 lbin - Conductor cross-section: 0.5 to 2.5 mm² / 20 to 14 AWG (solid, stranded and bootlace lugs) - Length of stripped conductor: 6 to 7 mm / 0.24 to 0.28 in - Material of housing: plastic - Colour: white - Environmental temperature: -20 °C to 40 °C - Humidity: 30 % to 70 % RH - Max. altitude: 2000 m - Supply voltage AC: 110 - 240 V, 50/60 Hz - Supply voltage DC: N/A - Energy consumption of the device: < 3 W - Max. switching voltage AC: 240 V - Max. switching voltage DC: N/A - Max. switching current: 2 A - Internal temperature sensor: Yes - Voltage meter (RMS): 100 - 260 V - Voltage meter accuracy: ±1 % - Current meters (RMS via CT): 0 - 50 A - Current meter accuracy: ±1 % (5 - 50 A), ±2 % (0 - 5 A) - Power and energy meters: Active and apparent power - No load threshold: 30 VA per phase - Storage of measurement data: At least 60 days with a data interval of 1 minute - Data export: CSV for recorded PQ values - RF band: 2400 - 2495 MHz - Max. RF power: <20 dBm - WLAN protocol: 802.11 b/g/n - Bluetooth protocol: 4.2 - CPU: ESP32-D0WDQ6 - Flash: 16 MB - Webhooks (URL actions): 20 with 5 URLs per hook - Scripting: Yes - MQTT: Yes - CoAP: No Further details: - Article dimensions (WxHxL) 18 x 100 x 70 mm - Packaging dimensions (WxHxL) 110 x 85 x 85 mm - Article weight (net) 0.163 Kg - Article weight (gross) 0.235 Kg - WEEE - CE - IP class IP20 Compatibility: - Aeotec Smart Home Hub - Works as a SmartThings Hub: partially compatible Energy values are not displayed correctly. - Aeotec Smart Home Hub - Works as a SmartThings Hub - UK: partially compatible Energy values are not displayed correctly. - Homey Bridge fully compatible - Homey Pro 2023 fully compatible

Specifications

Scan this QR code to view the product

All details, up-to-date prices and availability

