



210-ES7A-01B20

210-ES7A-01B20, Single-phase energy meter

Code: QBM03 DESCATALOGADO

- > Tariff: 3
- > Entrada cambio tarifa: No
- > Certification: IEC
- > Impulse output: 1
- > Class (Active/Reactive): B (1)
- > System: Single-phase
- > Measure: Direct
- > Measurement Range (V): 230
- > Measurement Range (A): 5 (65)
- > Quadrants: Abs.
- > Frequency (Hz): 50

Description

The **CIRWATT B101** invoicing meter is a single-phase meter for residential use. It is IEC certified to invoice electricity to end users. It features Class-1 accuracy for active energy and up to 3 programmable tariffs. The meter has a load profile with more than 400 days of data, 12 end-of-billing periods and the option to record any tampering or fraud in a special event and service quality file. For easier reading, these meters have a backlit display that makes it easy to see the electricity consumption in places with low lighting.

Application

Official electricity meter via on-screen verification or by data download via optical port.

The device has, depending on the version, a digital input for forced tariff changes, especially designed for installations with dual supply sources, accumulating in tariff 1 the energy from the grid and in tariff 2 the power from the second source based on the status of the digital input.

Depending on the version, the meter can be integrated with LM devices via pulse output to collect pulses, which allow the energy consumption to be centralized and sent remotely to the PowerStudio data management system.



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Specifications

AC power supply

| | |
|-----------------|-------------------|
| Tolerance | 80 % ... 115 % Un |
| Consumption | < 2 W; < 10 VA |
| Frequency | 50 / 60 Hz |
| Nominal voltage | 230 V |

Battery specification

| | |
|-----------------------|--------------------|
| Performance-guarantee | > 20 years @ 30 °C |
| Type | Lithium |

Mechanical characteristics

| | |
|----------------------------------|---------------------|
| Size (mm) width x height x depth | 129 x 215 x 62 (mm) |
| Envelope | DIN 43859 |
| Weight (kg) | 0,5 |

Environmental characteristics

| | |
|--|----------------|
| Relative humidity (without condensation) | 95 % max. |
| Storage temperature | -40 ... +85 °C |
| Working temperature | -40 ... +70 °C |

Voltage measurement circuit

| | |
|-------------------|----------------------------|
| Connection | Asymmetrical or Symetrical |
| Consumption | < 2 W; 10 VA |
| Nominal frequency | 50 / 60 Hz |
| Nominal voltage | 230 V |

Current measurement circuit

| | |
|-----------------------------|--------|
| Reference current (Iref) | 5 A |
| Maximum current | 65 A |
| Minimum current measurement | 250 mA |

Communication Network

| | |
|----------|-------|
| Protocol | 230 V |
|----------|-------|

Optical communication interface

| | |
|----------|-----------------------|
| Protocol | IEC 62056-21 mode C |
| Type | Serial;bi-directional |



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User interface

Resolution of the display

up to 7 digits



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| | |
|-------------------------------------|--|
| Display type | LCD |
| Memory | |
| Memory capacity | Up to 4 tariffs, optional load profile, 9600 records for load profiles |
| Type | FIFO |
| Measurement accuracy | |
| Reactive energy measurement (kvarh) | IEC 62053-21 (Class 2) |
| Active energy measurement (kWh) | Class 1 - IEC 62053-21 Class B - EN 50470 |
| Features / performance | |
| Billing closures | 15 |

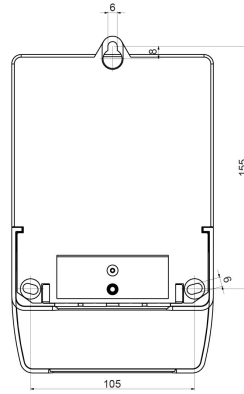
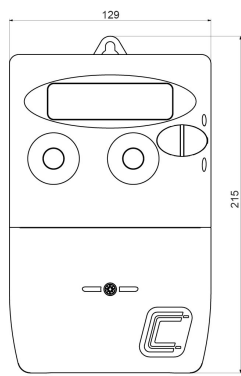


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Dimensions



Connections

