

# Dispenser B II

## Single-phase energy meter with dispenser function and built-in cutoff relay



### Description

The **Dispenser BII** is a single-phase meter with an electrical-energy dispenser function for controlling demand. The function of electrical-energy dispenser is based on the patented concept of daily available energy, which allows users intelligently to manage the energy available in networks, with limited or pulsing generation, such as the energy available from renewable energy sources. Features a general switch that controls maximum power and maximum demand, and an auxiliary switch that can be used to connect or disconnect non-essential consumption.

The meter complies with current European regulations (**MID**), **EN 50470-1** and **EN 50470-3**, using class B for the measurement of active energy and class 2 for the measurement of reactive energy. Features a standard optical communication port and a communication port for network connections used to read/write parameters and create databases. Features a wireless RFID card reader with configuration parameters that match the network to which it will be connected. It is also used as a contract and payment control. The LCD screen and the LEDs allow the user view energy availability.

### Application

- Microgrids in rural environments with solar energy, wind energy or other sources of renewable energy.
- Microgrids with petrol generators in which the available energy needs to be limited.
- Control of daily available energy in standalone installations.
- Electrical energy meter with flat rate or prepaid RFID card tariff in locations which are complicated to access and/or have low consumption.

### Technical features

<b>Power circuit</b>	Rated voltage	230 / 120 V
	Tolerance	80%...115% $U_n$
	Frequency	50 / 60 Hz
	Consumption	<2 W / 10 VA
<b>Voltage measuring circuit</b>	Connection	Asymmetrical
	Reference voltage	230 Vac
	Frequency	50 / 60 Hz
	Consumption	< 2 W
<b>Current measuring circuit</b>	Nominal current $I_n$	10 A
	Maximum current	40 A
	Minimum current	< 0.04 x $I_n$
	Consumption	0.024 VA @ 10 A
<b>Accuracy class</b>	Active energy	Class B - <b>EN 50470</b> Class 1 - <b>IEC 62053-21</b>
	Reactive energy	Class 2 - <b>UNE-EN 62053-12</b>
<b>Communications</b>	Optical	<b>IEC 62056-21</b> / Modbus
	RFID	Mifare MF1 ICS 50
	RS-485	Modbus / RTU
<b>Relay</b>	Nominal current	40 A
	Maximum current	120 A / 5 minutes
<b>Auxiliary relay</b>	Voltage	230 Vac
	Nominal current	5 A
<b>Mechanical features</b>	Protection degree	IP 51
	Dimensions	129 x 215 x 62
<b>Environmental features</b>	Operating temperature	-25 °C...+70 °C
	Relative humidity	95% without condensation
<b>Safety</b>	Designed for CAT II installations, in accordance with <b>EN 61010</b> . Double-insulated electric shock protection, class II	
<b>Standards</b>	<b>(MID) EN 50470-1, EN 50470-3</b>	

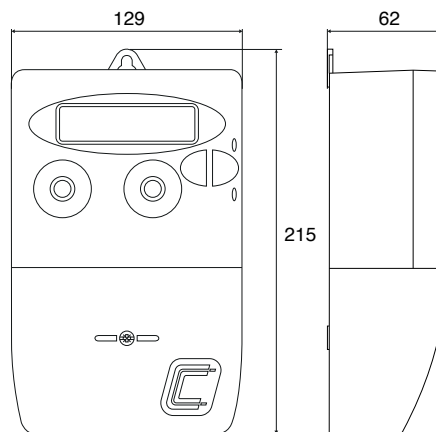
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## References

Type	Code	Description
Dispenser B II	E20004	Single-phase energy meter with dispenser function and built-in cutoff relay
DAM II	E20000	RFID card writer
DCARD	E20001	RFID Card for <b>Dispenser B II</b>

## Dimensions



## Connections

