

**BM.31**  
**Single Phase Active Import-Export**  
**Electronic Electricity Meter**



**GENERAL FEATURES**

- MID (Measuring Instruments Directive) Certified
- Data storage without energy and non-volatile memory
- Keeps period data in its memory of at least 1 year
- More than 10 years of battery life and protection for date and time in case of energy absorption
- Consumption and time data can be read through optical port and LCD display without energy.
- 8 Different time periods in a day, 4 different tariff types, 4 different day types
- LCD display showing amount of energy consumed according to tariff
- Demand measurement capacity in every 15 minutes
- Ability to show warnings on display in different situations such as clock corruption, low battery, terminal cover and top cover open, magnetic interference, communication warnings
- Automatic daylight save implementation (activation/deactivation through optical port)
- Instant voltage, current, frequency, import and export active power values, terminal cover and top cover opening dates with OBIS codes display on LCD
- Load profile recording at least for 180 days and 5 channels at 15 minute intervals and programmable load profile period (15-30-60 minutes)
- Long life and maintenance free operation



**TECHNICAL SPECIFICATIONS**

Meter Type	1-Phase, 2-Wire, Active Import&Export
Connection Type	Direct
Accuracy Class	Class C (EN 50470-1/3)
Nominal Voltage (Un)	230 V
Operating Voltage Range	0,8 Un and 1,15Un
Reference Frequency	50 Hz $\pm$ 5%
Starting Current (Ist)	10 mA
Minimum Current (Imin)	0,15 A
Transitional Current (Itr)	0,5 A
Nominal Current (In)	5 A
Maximum Current (Imax)	100 A
IP Rating	IP54 (Outside)
Protective Class	Two (2)
Operating Temperature	-40 °C, +70 °C (3K7)
Mechanical Environment Class	M1 (According to 2014/32/EU)
Electromagnetic Environment Class	E2 (According to 2014/32/EU)
Voltage Circuit Power Consumption	< 1 W, 2 VA
Current Circuit Power Consumption	< 1 VA
ESD Immunity	Contact: 8 kV; Air: 15 kV
Impulse Voltage	6 kV
Meter Constant	1000 imp/kWh
LCD Display	6+3, Backlight
Communication	Optical, RS485 300-19200 Baud (EN 62056-21)
Real Time Clock Accuracy	< 0.5 sec/day (EN 62054-21)
Weight	0,37 kg

**DIMENSIONS**

