

BPM.10 MASS PRO Single Phase Active Electronic Electricity Meter



GENERAL FEATURES

- MID (Measuring Instruments Directive) Certified
- 8 different time zones can be set during the day, and the active energy consumed in each time zone can be recorded in one of 4 different tariffs. It has the feature of being able to set separate time zones and tariffs for 3 different day types (weekday, Saturday, Sunday).
- It automatically activates daylight saving time.
- Tariff information, meter date and time, and daylight saving time status can be changed by authorized personnel.
- If the top cover is opened, it records the first 10 top cover opening dates and the total number of openings.
- If the terminal cover is opened, it records the last 24 opening dates and the total number of openings.
- The meter records the amount of energy consumed in each tariff for the last 12 months, the maximum demand information for the last 12 months, and the date and time.
- The meter can record 5 channel load profiles with 15-minute periods for the last 180 days.
- The meter records the dates of the last 10 current connection errors (reverse current).
- The meter records the dates and times of the last 200 power outage records.
- The meter has technical quality features and keeps records of the last 99 events.
- The meter has geographical indication (GF) features and can be regionally identified.
- The meter has a relay switching/disconnection feature and can perform switching/disconnection remotely and via communication using OBIS codes.

TECHNICAL SPECIFICATIONS

Meter Type	Mass Pro Single Phase Active Electronic Electricity Meter
On/Off Relay	Optional
Technical Quality Records	✓
GF Codes	✓
Accuracy Class	Active Class B
Minimum Current (I _{min})	0,25 A
Meter Constant	1000 imp/kWh
Load Profile	5 Channels, 180 Days (15 min.)
Connection Type	Direct
Nominal Voltage (U _n)	230V
Operating Voltage Range	0,8-U _n 1,15U _n
Reference Frequency	50 Hz ±5%
Starting Current (I _{st})	20 mA
Transition Current (I _{tr})	0,5 A
Nominal Current (I _n)	5 A
Maximum Current (I _{max})	100 A
IP Class	IP54 (Outside)
Protective Class	Two (2)
Humidity Ratio	Max. 95%
Operating Temperature	-40 °C, +70 °C (3K7)
Storage Temperature	0°C, +30°C
Mechanical Environment Class	M1
Electromagnetic Environment Class	E2
Voltage Circuit Power Consumption	<1 W, 5 VA
Current Circuit Power Consumption	<4 VA
ESD Immunity	Contact: 8 kV; Air: 15 kV
Impulse Voltage	6 kV
LCD Display	6+3, Backlight (Optional)
Communication	Optical, RS485 300-19200 Baud (EN 62056-21)
Battery Life	≥ 10 years / 4 Years
RTC Accuracy	< 0.5 sec/day (EN 62054-21)
Standards	TS EN 50470-1, TS EN 50470-3

DIMENSIONS

