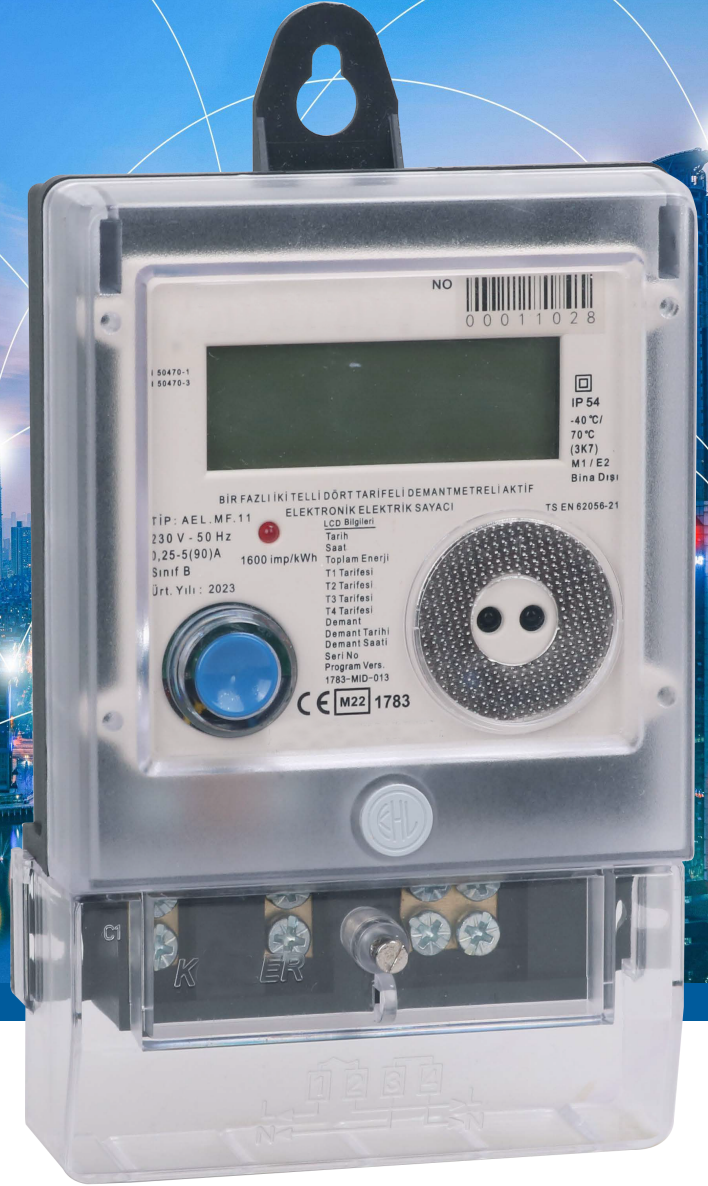


QBM11-2

Single Phase kWh Meter



Overview

QBM11-2 is a single phase meter features compact and cost-efficient design which can measures active energy and maximum energy absorbed, and show these data on LCD screen. Automatically performing summer-winter hour, keeping desired information and programs in its memory, accessing these information when desired, which have been manufactured with advanced technology and focused on the necessary and offers an excellent price-performance ratio.

LCD Display

LCD display with back light provides a efficient and clear display in different operating environment

Anti-Fraud

Meter has the advance open cover detection function, can record the event of fraud.

Auxiliary Battery

Meter is with a built-in and durable lithium battery, through which can provide a display when power failure.

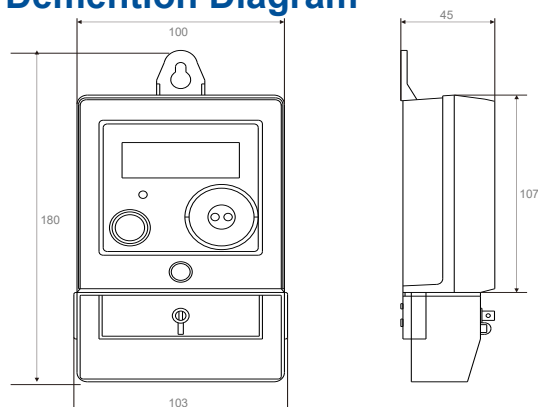
Main Function

- ❖ **Measurement:** The electricity meter the total active power in four different tariffs.
- ❖ **Programming the Electricity Meter:** Time slices and tariffs are programmable. For a whole day, 8 different time slices may be determined and each time slice may be selected and paired with one tariff out of four. Furthermore, the electricity meter has a feature capable to tariff individually the weekdays, Saturdays and Sundays. On the electricity meter, the date and time, tariff data may be adjusted by the authorized users personnel by opening the lid of electric terminal box.
- ❖ **Reading the Electricity Meter:** Invoicing data for 12 months, consumed total power amount, data about lid openings of electric terminal box, demand data for 6 months and initial opening date of upper lid can be read on optic port of the electricity meter.
- ❖ **Auto Trouble-Shooting Feature:** The electricity meter continuously controls its internal circuits and displays in the menu of its monitor the trouble types shown hereunder.
- ❖ **Open Cover Detection:** Meter will detect and record all the cover opening events, the first opening date of each month and total of openings throughout the relevant month is stored. Lid opening dates and numbers of the most recent 12 months are stored in the memory.
- ❖ **Communication:** The data is transmitted to a portable computer (index or) through an optical reader from optic port of the electricity meter.
- ❖ **Signal Output:** On the electricity meter, there is two LEDs so as to indicate the consumed active energy. Numbers of blinks of these LEDs shows Imp/kWh values of the electricity meter. The constant is 1600 Imp/kWh : 1600 Blinks = 1 kWh
- ❖ **Day Light Saving Time:** The electricity meter automatically switches to summer / winter day time light saving time.
- ❖ **Power Failure Display:** Meter has a built-in battery, when the power is cut, the data requested can be brought to the LCD monitor via the call-button on the electricity meter and reading can be taken from optic port.

Technical Specification

Connection	Single Phase 2 Wire
Accuracy	Class B
Reference Voltage (Un)	230 V
Reference Frequency (Fn)	50 Hz $\pm 5\%$
Starting Current (Ist)	20mA (0.04.Itr)
Minimum Current (Imin)	0.25 A
Transition Current (Itr)	0.5 A
Reference Current (In)	5 A
Maximum Current (Imax)	90 A
Operating Voltage Range	From 0,8Un to 1,15Un
Protection Class	IP54
Relative Humidity Ratio	95%
Operating Temperature	-40 °C, +70 °C (3K7)
Mechanical Environment	M1 (2004/22/EC Directive)
Electromagnetic Environment	E2 (2004/22/EC Directive)
User Environment	For Non-Condensing Humidity Environment
Power Consumption	Voltage Circuit: ≤ 2 W, ≤ 10 VA; Current Circuit : ≤ 4 VA
Power Factor	From 0 to ± 1
ESD Voltage Resistance	Contact Discharge : 8 kV; Air Discharge : 15 kV
Pulse Voltage	6 kV
Meter Constant	1600 imp/kWh
LCD Display	6+3 Digit
Communication Speed	300-4800 Baud (IEC 62056-21)
Interface Unit	Optical Port (IEC 62056-21)
Battery Life of the System	≥ 10 year
Real Time Clock Battery Life	≥ 10 year
Shelf Life of the Electricity Meter	≥ 10 year
Time Clock Accuracy	0,5 s/day (at room temperature) (IEC-EN 61038)
Data Storage Capacity	Records and events for 1 year a period
Related Standards	TS EN 50470-1, TS EN 50470-3

Demention Diagram



Connection Demention

