

# BB-1M01

AMI-ready Single Phase Direct-connected Meter



BRICK & BYTE

BB-1M01 is an intelligent single phase meter combining monitoring and load control facilities for advanced metering infrastructure (AMI) applications.

The provision of communication port to interface for remote reading. The meter has capability for data transfer over low power RF Zigbee communication.

Communication is also available through ZigBee to in-home displays (IHD) for Smart Metering installations.

BB-1M01 is equipped with remote supply connect-disconnect relays for AMI application.



## Application:

- ♦ Domestic single phase metering with remote billing and disconnect
- ♦ Metering for small commercial premises
- ♦ Metering for advanced metering infrastructure (AMI) deployment
- ♦ Metering for micro-generation installations

## Benefits:

- ♦ Remote reading and disconnection function reduces routine meter visits
- ♦ Easy integration in AMI system
- ♦ Easy Diagnosis of faults via instantaneous electrical parameters
- ♦ Prolonged asset life via remote firmware upgrade
- ♦ Helps in reducing energy consumption

## Features:

- ♦ True four-quadrant measurement
- ♦ Remote connect-disconnect feature
- ♦ Maximum demand recording
- ♦ Communication options like Optical port, RS485, ZigBee LPR
- ♦ Logging of multi parameter load survey and billing data

**BRICK & BYTE INNOVATIVE PRODUCTS PVT. LTD.**

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# BB-1M01



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## Technical specifications

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### Electrical

Connection type	Direct connected
Wiring configuration	1-phase, 2-wire
Voltage range	1*240 VAC (-40% to +20% of rated range)
Current range	5 - 30 A (Overload - 150% of $I_{max}$ )
Accuracy	Class 1.0
Mains frequency	50 Hz $\pm$ 5%
Burden	Voltage Circuit: < 1 W, 8 VA Current Circuit: < 1 VA
Starting Current	0.2% of $I_b$
Impulse Rate	3600 Impulses / KWh

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### Display

Type of Display	Backlit LCD Display
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### Compliance

Standards	IS: 13779, CBIP 88
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### Environmental

Temperature	-10 °C to +55 °C (operating)
Humidity	Maximum 95% non-condensing

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### Other Features

Energy Registration Mechanism	Four Quadrant Energy Measurement
Maximum Demand	KW / KVA Selectable
Maximum Demand Period	15 / 30 min. Selectable
Demand Reset Mechanism	Manual/Auto, Monthly/Bi-monthly, Odd/Even month Selectable
Tamper Logging	Available - FIFO basis
Communication	Optical port, ZigBee 2.4 GHz communication
AMI Function Support	Yes - Remote Connection / Disconnection
Billing History	Atleast for last 6 months

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