

BM

BRANCH CIRCUIT MONITOR

Multi Channel Load Manager | Power Distribution Unit/System

COMPACT DEVICE TO ENROUTE MULTIPLE CHANNELS!

Features :

- Multi-channel data collection.
- 3 Phase, 4 channels or Single phase 12 channels
- Displays Basic, Power and Energy parameters.
- Optional Pluggable Zigbee communication or Ethernet (Default RS 485).
- Space saving compact design for easy installation into existing panel boards.
- True RMS measurements.
- Simultaneous sampling of Volts & Amps.
- Accuracy class 1.0 as per IEC 62053-21, Class 0.5 as per IEC 62053-22.
- User programmable password protection.
- Energy resetting @ 999999 KVAh × Transformer ratio.
- Displays more than 25 parameters - Basic [VLL, VLn, A (Average & Phasewise), F], Power [W, PF, VA (Total & Phasewise)] and Energy [Wh, LH].
- Optional Ethernet with 14GB memory for IOT device.

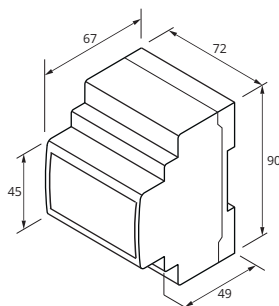
Note: Customization can be done for other parameters provided volume justify

Applications :

- For remote reading and control, the BM is supported by EInet Software, designed for remote setup and data viewing and analysis.
- Building Management System: With the open modbus protocol, the BM can interface any system, such as building management, HMI etc.
- Compact : Ideal for Data Center.
- Ideal for apartments / commercial complexes billing and load pattern study on individual phase.
- Individual phase kWh measurement provides user flexibility of measuring 3 phase 4 channels or single phase 12 channels.
- Primary current can be independently configured making it ideal for any kind of industry or up-gradation.

Note: Additional error of 0.1% of full scale, for meter input current below 500mA for 5A setting

Mechanical Specification



Current Transformers :



Hang on CT- 5A or 50A or 100A or 200A



Up to 100A, 16mm ID



Clip on CT-5A | 50A | 100A | 250A



Split Core CT-100A | 400A | 1000A

Technical Specification:

Specification	Description
Accuracy:	Class 1.0 (Default) as per IEC 62053-21, Class 0.5 as per IEC 62053-22 (Optional).
Sensing/ Measurement:	1:600 for channel 1 & 2, 1:120 for channel 3 & 4
Sensing/ Measurement:	True RMS, 1 Sec update time; 4 Quadrant Power & Energy
Input Voltage:	4 Voltage inputs (V1 V2 V3 Vn) Programmable 110 or 415V LL Nominal (Range 80 to 550V LL) Primary Programmable up to 999 kV. Burden: 0.2VA Max. per phase.
Input Frequency:	45 - 65 Hz
Input Current:	Current inputs (A1 A2 A3), 4 Channels - Each channel is independently configurable. Primary Programmable up to 99 kA. CT output : Can be upto 1000 mV or 100 mA from Split core CT or Hanging CTs - Manufacturing option.
Aux-Supply	80 - 300V AC / DC, 40-70Hz. Burden: 4VA Max.
Display resolution:	1 row 6 Digit for Integrated, 4 Digits for Instantaneous
CT PT Ratio Max:	2000 MVA Programmable.
Communication RS485 interface:	Parity: Odd, Even, None (Preferred Even) Baud rate: 4800 bps to 19200 bps. (Preferred 9600 bps). Isolation: 2000 volts AC isolation for 1 minute between communication and other circuits.
Weight:	Unpacked: 275 gms Packed: 350 gms (weight of CT excluded)

SCHEMATIC DIAGRAM

Optional: Zigbee | WiFi | Ethernet | GPRS Module with memory up to 14 GB

