



Branched Chain Power Monitor

M84L

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- **Monitors up to 84 branch circuits with a single BCPM.**
- **Ideal for installation in both new PDUs and retrofit projects.**
- **M84L with solid core CTs monitors up to 84 branch circuits using CT strips. Solid core CTs are rated to 60A and are mounted on strips to simplify installation. CT strips are available with 21 CTs per strip, on 20 mm spacings.**
- **Accurately monitor very low current levels, down to a quarter-Amp.**
- **Class 1.0 system accuracy for Revenue Grade measurements:** Branch Power and Energy measurements fully meet IS13779 Class 1 accuracy requirements with 84 CTs included.
- **Voltage and current measurement accuracy is 0.5 % and currents are measured down to 20mA.**
- **Communicates with your various systems:** M84L supports Modbus-RTU over RS485 and TCP/IP at same time. Also supports SNMP V2 over TCP/IP. Allowing the concurrent use of an Energy Management System, a Building Management System and an IT system.
- **Flexible Configuration capability:** Supports 3P4W and 1P2W installation. Few loads can be configured as 3P4W (R,Y and B sequence also configurable) and few loads as 1P2W (pairing with any single phase).
- **Solution for:** Markets that can benefit from a solution that includes M84L
 - Data centres
 - Buildings

ORDERING INFO.		
Item	Code	Description
Model	M84L	M84L with solid core CTs. Highly accurate meter that monitors branch circuits and the incoming power mains
Feature set		Field programmable load pairing and installation type, monitor per phase amps, power & energy (per phase for 1P2W, system for 3P4W)
CT spacing		20mm
Number of circuits	21	21 Circuits, One 21-CT strip
	42	42 Circuits, Two 21-CT strips
	63	63 Circuits, Three 21-CT strips
	84	84 Circuits, Four 21-CT strips

Electrical Characteristics		
Type of measurement		
Accuracy	Power/Energy	Class 1.0 As Per IS13779 (using 60A branch CTs)
	Voltage	±0.5 % of reading
	Current	±0.5 % of reading
Minimum “ON” current		20mA
Sampling rate		3906 Hz
Data update rate		1 second
Input-voltage		20 - 300 VAC (L-N)
Power supply	AC	170- 300 VAC, Input, DIN RAIL Mount external power supply
Mechanical characteristics		
BCPM Weight		1.1 Kg
BCPM Dimensions		235 x 156.50 x 60mm (LxWxH)
CT Strip Weight		0.85 Kg
CT Strip Dimensions		645 x 65 x 55mm (LxWxH)
SMPS Weight		0.2 Kg
SMPS Dimensions (DIN RAIL Mount)		115 x 90 x 70mm (LxWxH)
Environmental conditions		
Operating temperature		0 °C to 60 °C
Storage temperature		0 °C to 60°C
Communication		
Ethernet (E models)		10/100 Mbit Ethernet. RJ-45 connection. Static IP
Protocols		Modbus-RTU, SNMP V2

