



MCS-POWERMETER-B-MODBUS

Description & Specifications



Part # **MCS-POWERMETER-B-MODBUS**

Description

A universal, digital 3 phase power meter

The **MCS-POWERMETER-B-MODBUS** is expertly designed for engineers who require a highly effective means of monitoring and displaying data. This panel-mounted 3-phase power meter is specifically tailored for mains circuits, potential transformers, and current transformers.

With its multi-measurement capability for active and reactive power, it stands as the ideal choice for a diverse range of power monitoring applications, solidifying its position as the most flexible panel power meter for electrical monitoring.

Benefits include:

- Works with potential and current transformers
- Modbus® RTU over RS485 - communication as standard.
- 10 alarm set points
- Measures Active (W), Reactive (VAr) and Apparent (VA) power.
- Displays electrical parameters on large, backlit LCD display.
- Provides clear indication of electrical circuit performance.
- Programmed setup at Micro Control Systems

Packaging

Weight..... 4 lbs (approx)
Box..... 6" x 6" x 6" Corrugated Box (approx)

Specifications

Mounting Type	Panel Mount
Overall Dimensions	2.83" x 2.83" x 2.90" 72mm x 72mm x 74mm
Panel Cutout Dim. Square.....	2.68" x 2.68" 68.00mm x 68.00mm
Measuring Type Current	(3-Phase), Voltage
Voltage measurement range	L-L 10- 600VAC L-N 10 - 300VAC
Current measurement range	0 - 5A
Display Type Background.....	White
Analog Output.....	1 @ 4-20mA
Voltage - Supply	100 ~ 277VAC
Max power	2W
Supply Frequency.....	50-60Hz
Voltage OP Outputs	12-24AC/DC
Max sink current	15mA
Communication	Modbus® RTU over RS485
Termination Style.....	Screw Terminal
Operating Temperature.....	14°F ~ 122°F (-10°C ~ 50°C)
Weight	0.441 lb (200.03 g)
IP Rating.....	IP65, NEMA type 4 and 12
Certification.....	CE, RoHS, UL, cUL, UKCA

Kit Include

- **MCS-POWERMETER-B-N**



- **MCS-POWERMETER-B-CT-1000**

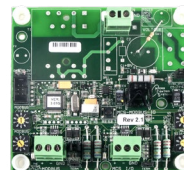
Three (3) current transformers
 Mounting Pass-through conductor
 Connection Type - Screw Terminal
 Secondary Conductors -22-14 AWG copper only
 Temperature range -20° to +50°C [-4° to +122°F]
 Agency Approvals - RoHS, UL, CE

- **Three- 1AMP Fuses & Pole Fuse Block**
- **One- 0.5AMP/250V & DINnector terminal block**



- **MCS-MODBUS-I/O-12**

The **MCS-MODBUS-I/O-12** gives the MCS-MAGNUM the ability to act as a Modbus Master using the Modbus RTU Protocol.



This allows the **MCS-MAGNUM** to communicate to the MCS-POWERMETER-B as a Modbus slave device.