Intended Use: The MCS-POWERMETER-B-N has been specifically designed for engineers requiring an effective way to monitor and display data. The unit has been designed for industrial use only, by installation into electrical cabinets or display panels.

IMPORTANT

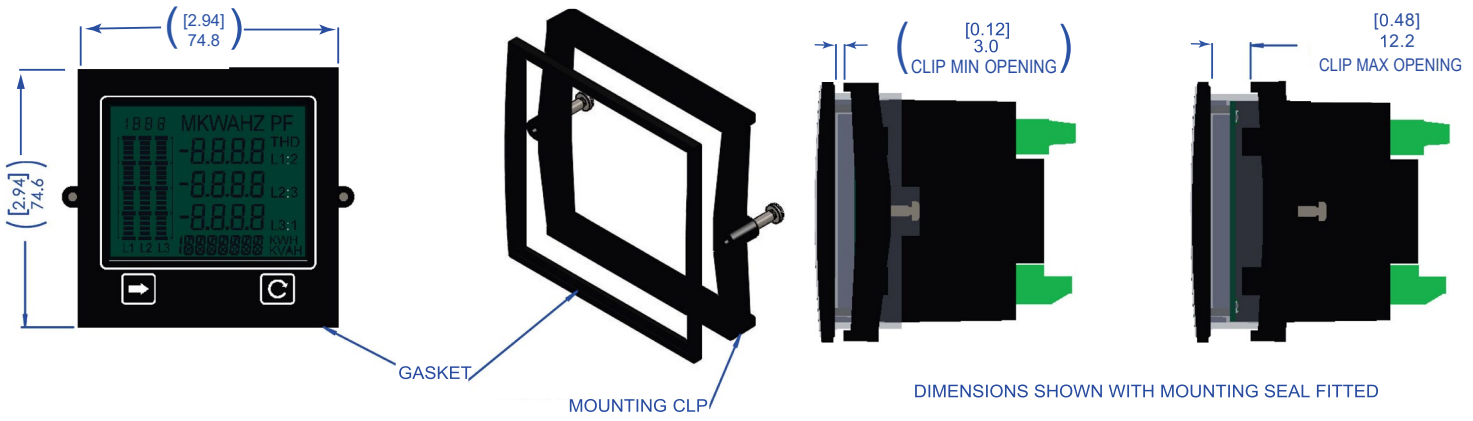
WARNING: INSTALLATION AND MAINTENANCE MUST BE CARRIED OUT BY SUITABLY QUALIFIED AND COMPETENT PERSONNEL ONLY. HAZARDOUS VOLTAGES MAY BE PRESENT ON THE CONNECTION TERMINALS.

IMPORTANT

INSTALLATION

- Install this product in accordance with local regulations, codes and instructions.
- An external fuse must be fitted in-line with the PSU. Recommended fuse: 0.5A/250V with a breaking capacity of 35A or greater.
- All conductors carrying hazardous voltage must have external switching or disconnect mechanisms fitted that provide at least 3 mm of contact separation in all poles.
- Signal cables connected to this device must not exceed 30 metres long (98 feet).
- Do not routed cables outside the enclosure.
- Observe maximum allowable voltages. Modbus must be limited energy and insulated from voltage and current inputs by double/reinforced insulation to *[1] IEC 61010-1:2010, *safety requirements*)
- All current transformers must be certified to *[1] IEC 61010-1:2010, *safety requirements*).
- To reduce risk of electric shock always disconnect the power circuit being monitored before installing or servicing current transformers.
- The MCS-POWERMETER-B should be used indoor in a *[2] NEMA 1 control panel or encloser.

TEMPLATE DRAWING SUPPLIED WHEN SHIPPED
Click on QR Code or scan with phone to open template on MCS Website



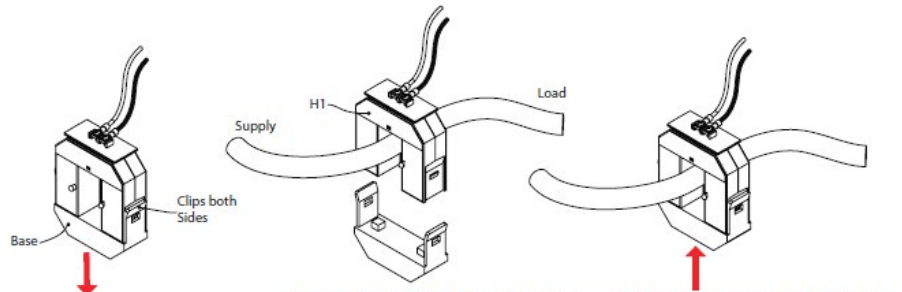
*[1] IEC 61010-1:2010 specifies general safety requirements for the following types of electrical equipment and their accessories, wherever they are intended to be used. a) Electrical test and measurement equipment. b) Electrical industrial process-control equipment c) Electrical laboratory equipment.

*[2] NEMA 1 NEMA 1 is a rating system for electrical enclosures that provides a basic level of protection for industrial applications. NEMA 1 enclosures are designed for indoor.

Wiring and Installation of MCS-POWERMETER-B-N and MCS-POWERMETER-B-CT1000 Current Transformers

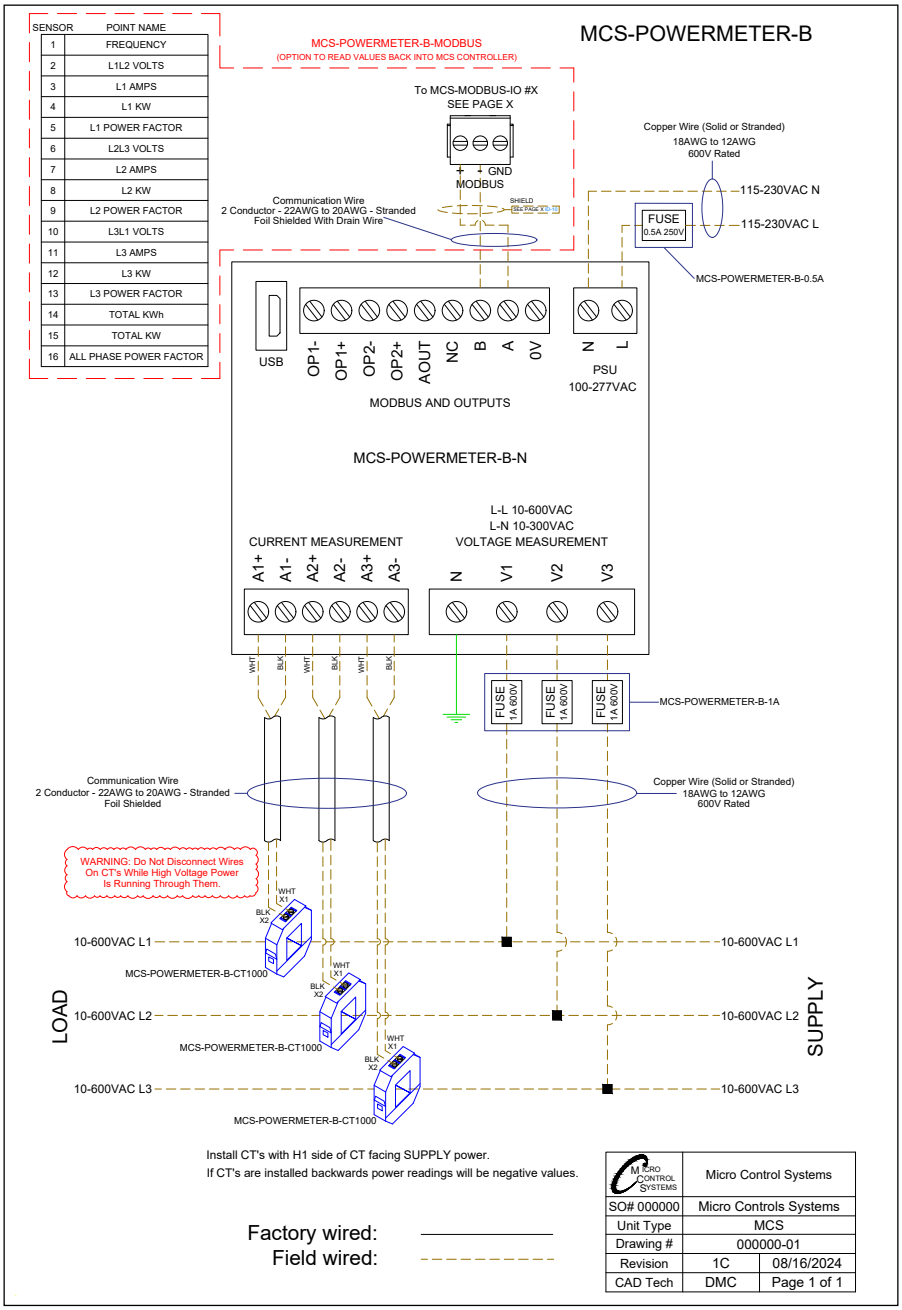
Place wire or bus bar to be monitored through the sensing window. Make sure output load does not exceed product specifications. Observe polarity: H1 must face power source, terminal X1 on CTs go to the positive (A+) on the meter.

WARNING: Do Not Disconnect Wires On CT's While High Voltage Power Is Running Through Them.



Be sure that the H1 side of the CT faces the source of the power.

Energize the monitored circuit. Verify that the display or controller is reading the output correctly.



MICRO CONTROL SYSTEMS

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