

Features

- Direct-read 8-digit LCD display of cumulative kWh.
- E-Mon Energy software supports:
 - Load profiling (5 or 15 minute) of kWh & kVARh
 - Real-time reading of:
 - Amps per Phase
 - Volts per Phase-to-Neutral
 - Volts per Phase-to-Phase
 - KW, kVA and kVAR per Phase
 - Total kW, kVA and kVAR
 - Frequency
 - Power factor Percent & Angle per Phase
- Open protocol for easy integration to various building automation and energy management systems, including optional Modbus RTU & TCP/IP, BACnet IP & MS/TP and LONworks Twisted Pair.
- 0-2 volt output split-core current sensors allow for enhanced safety and accurate remote mounting of current sensors up to 500 feet from meter without power interruption. (Optional solid-core sensors for 100 & 200 amp meters only available.)
- Current sensor installation diagnostic indicator on display.
- RS-485 communications capability supports the following connection configurations (or combinations not to exceed 52 devices per channel):
 - Up to 52 Class 3000 meters and/or IDR-8 interval data recorders
 - Up to 26 IDR-16 interval data recorders (IDR-16 counts as two devices)Cabling can be either daisy-chain or star configuration, 4-conductor, 24-26 AWG, up to 4,000 feet total per channel.
- Communication Options:
 - RS232/RS485 (Standard)
 - Telephone Modem
 - Ethernet
 - Modbus RTU or TCP/IP
 - BACnet IP or MS/TP
 - LONworks TP (Twisted Pair)
- Modbus and BACnet options support two external inputs from gas, water, etc. meters. (Dry contact, 10 Hz max. input.) Modbus RTU, BACnet IP & MS/TP available with RS-485. Modbus TCP /IP or BACnet IP requires Ethernet. Standard EZ7 protocol supports one external input.
- Meter can be used on the following configurations:
 - 3-Phase, 4-Wire
 - 3-Phase, 3-WireFor other configurations, contact (800) 334-3666.
- Available in standard JIC Industrial-grade steel enclosure (gray-standard, green-optional) or optional NEMA 4X outdoor enclosure.
- UL/CUL Listed; meets or exceeds ANSI C12 national accuracy standards. Meter meets IEEE/ANSI C12.20, Accuracy class.



Dimensions:

Indoor Enclosure: 7 1/4" H x 7" W x 3 1/4" D

Optional Outdoor Enclosure: 7 1/2" H x 7 1/2" W x 4" D

Model Numbers

120/208-240V, 3-Phase, 4W

MS208100C KIT (100 amp)
MS208200C KIT (200 amp)
MS208400C KIT (400 amp)
MS208800C KIT (800 amp)
MS2081600C KIT (1600 amp)
MS2083200C KIT (3200 amp)

277/480V, 3-Phase, 4W 480V, 3-Phase, 3W

MS480100C KIT (100 amp)
MS480200C KIT (200 amp)
MS480400C KIT (400 amp)
MS480800C KIT (800 amp)
MS4801600C KIT (1600 amp)
MS4803200C KIT (3200 amp)

* NOTE: Specify Delta or Wye when ordering. Add suffix "Y" for Wye configuration or "T" for Delta configuration. (e.g., MS480100CEY or MS480100CET)

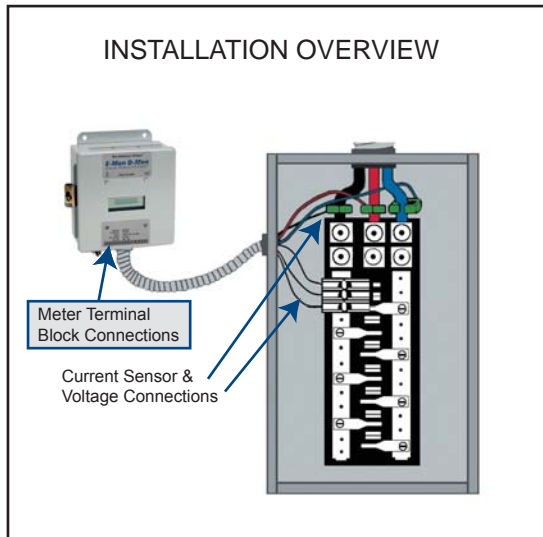
Options

To order options, add the specified suffix to the end of the model number (MS208100CYG KIT).

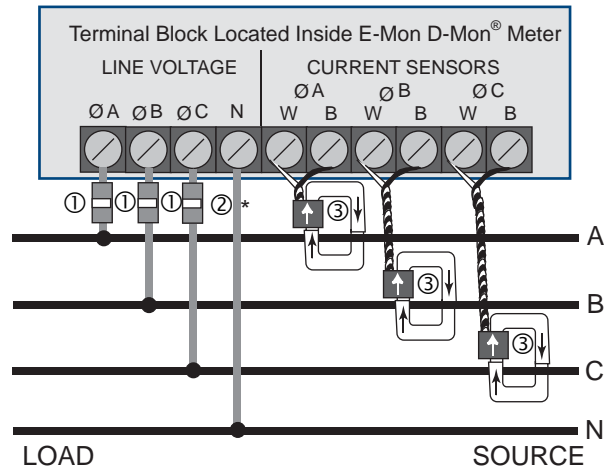
Telephone Modem - Suffix M
E-Mon EZ7 over Ethernet-Suffix E
Pulse Output - Suffix Q
Modbus RTU Communication-Suffix RTU
Modbus TCP/IP Communication-Suffix ERTU
BACnet IP Communication-Suffix EB
BACnet MS/TP Communications-Suffix B
LONworks Twisted Pair Communication - Suffix LTP

Enclosure Options
Outdoor Enclosure-Suffix R
Green JIC Steel Enclosure-Prefix G

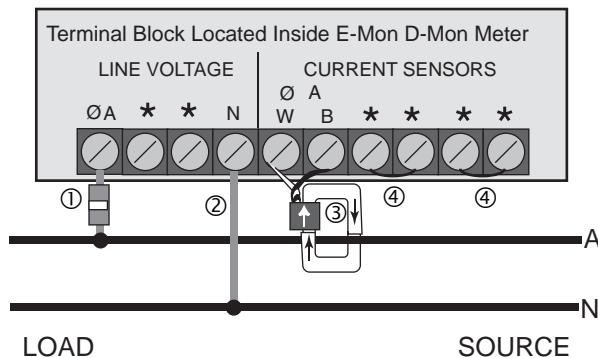
NOTE: All meter kits include one set of three (3) split-core current sensors.



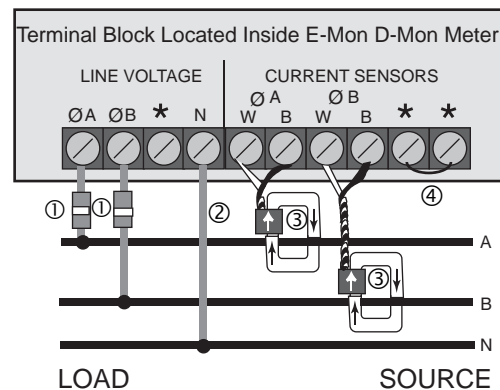
3-PHASE, 3-WIRE OR 3-PHASE, 4-WIRE INSTALLATION DIAGRAM (Class 2000 or 5000 Series Only)



1-PHASE, 2-WIRE 120 or 277 VOLT INSTALLATION DIAGRAM (Class 1000 Series Only)



SINGLE-PHASE, 3-WIRE 120/240, 120/208 or 480 VOLT INSTALLATION DIAGRAM (Class 1000, 2000 or 5000 Series)



* These terminals are not used in Class 1000 installations.

- ① Recommended fuses or circuit breaker per the National Electrical Code (Meter load 6VA.)
- *② Neutral not used in delta system.
- ③ Split-core current sensors. Install according to instructions.
- ④ Install jumper wire.

Typical Fuses: Littlefuse KLDL100 (100 ma) Not included. (Consult local electrical codes for requirements.)