

# CLASS 1000 SINGLE-PHASE kWh METER

**E-Mon D-Mon**

Energy Monitoring Products & Systems

## Features

- Direct-read 2-line alpha-numeric LCD display without multiplier displays accumulative kWh and "real-time" kW load.
- Available in MMU (Multiple Meter Unit) enclosures containing up to 24 meters in one compact enclosure.
- Revenue-grade accuracy.
- Patented 0-2 volt output split-core current sensors promote enhanced safety and accurate remote mounting of current sensors up to 2,000 feet from meter without power interruption. (Optional solid-core sensors available in 100 & 200 amp.)
- Parallel up to three (3) sets of current sensors for cumulative reading.
- Current sensor installation diagnostics.
- Fixed pulse output.
- Non-volatile Memory.
- Maintains reading in the event of power failure.
- Meter can be used in the following configurations:
  - 1-Phase, 2-Wire
  - 2-Phase, 3-WireFor other configurations, contact factory.
- Industrial grade JIC steel enclosure (standard) with padlocking hasp & mounting flanges for indoor installation. Knockouts: 1 1/16" (3/4" cond.) bottom, 7/8" (1/2" cond.) top.
- Optional NEMA 4X polycarbonate enclosure with padlocking hasp & mounting flanges for indoor/outdoor installation (stand alone) with one 1 1/16" KO on bottom of enclosure.
- UL/CUL Listed.
- Certified by independent test lab to ANSI C12.20 national accuracy standards. (+/- 0.2% from 1% to 100% of rated load.)
- California CTEP approved for use with solid-core current sensors. Listed by the California Energy Commission.
- New York City approved, Con Edison approved for RSP program.

MMU Style  
(Multiple Meter Unit)



Stand-Alone Configuration  
Dim: 6 3/4" H x 5 3/16" W x 3 1/4" D

## Model Numbers

### 120V, 1-Phase, 2W

(Supplied with (1) split-core current sensor)

E10-212025-JKIT (25 Amp)  
E10-212050-JKIT (50 Amp)  
E10-2120100JKIT (100 Amp)  
E10-2120200JKIT (200 Amp)

### 120/208-240V, 1- or 2-Phase, 3W

(Supplied with (2) split-core current sensors)

E10-320825-JKIT (25 Amp)  
E10-320850-JKIT (50 Amp)  
E10-3208100JKIT (100 Amp)  
E10-3208200JKIT (200 Amp)

### 277V, 1-Phase, 2W

(Supplied with (1) split-core current sensor)

E10-227725-JKIT (25 Amp)  
E10-227750-JKIT (50 Amp)  
E10-2277100JKIT (100 Amp)  
E10-2277200JKIT (200 Amp)

### Optional Meter Enclosures

Replace "J" in model number with optional enclosure specification.

Specification M - MMU Configuration  
(ex. E10-3208100MKIT)  
Specification R - NEMA 4X Raintight Enclosure  
(ex. E10-212025-RKIT)

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# CLASS 1000 METER ENGINEERING SPECIFICATIONS

- Meter shall be fully electronic with 2-line alpha-numeric LCD display for kilowatt-hour readings. Meter shall provide rate of consumption indication and also a test sequence to ensure integrity of the display.
- Meter shall provide a load indicator to indicate real-time consumption levels for field testing and certification.
- Meter shall provide current sensor installation diagnostics indicator.
- Meter shall use 0-2 volt output current sensors to allow paralleling and/or mounting up to 2,000 feet from the meter. Sensors shall be of split-core configuration to allow installation without powering down. Sensors shall be available from 25 amp to 200 amp. Sensors shall be optionally available in solid-core configuration (100 & 200 amp.)
- Meter shall be enclosed in a heavy-duty JIC steel enclosure suitable for indoor installation. Meter enclosure provides a method of locking to prevent unauthorized access.
- Meter shall be optionally available in an outdoor NEMA 4X polycarbonate enclosure with padlocking hasp & mounting flanges for indoor installation.
- Meter shall be optionally available in MMU (Multiple Meter Configuration) enclosures containing up to 24 meters in one compact enclosure.
- Meter shall be UL Listed/CUL Listed to latest applicable standards for safety.
- Meter shall be certified by a nationally recognized independent test facility to ANSI C12.20 (+/- 0.2% from 1% to 100% of rated load) specifications.
- Meter shall be California CTEP approved for use with solid-core current sensors, listed by the California Energy Commission, New York City approved and Con Edison approved for RSP program.
- Meter shall be provided with a non-volatile memory to maintain reading during power outages.
- Meter shall be provided with modular connector(s) to provide interfacing with:
  - AMR (Automatic Meter Reading)
  - Building Management/Energy Management Systems
- Meters shall be compatible with E-Mon Energy™ software.