Test Equipment Depot
1-800-517-8431

Class 3000 Meters

With continued pressures to conserve energy and reduce costs, advanced metering technology provides a simple, low-cost way to achieve those goals. Today's "smart" meters allow you to identify how, when and where energy is being used in your facility and you can conveniently read that energy data right from your desktop as it is collected from remote locations. The load control option allows you to connect meters to a wide array of energy-intensive loads and perform load shedding activities to reduce kW demand requirements. Monitored loads can include lighting circuits, heating and cooling systems, individual production lines and entire buildings. Class 3000 meters are compatible with RightEnergy™ software, which allows you to easily monitor energy use from your desktop PC.

Key Benefits

Versatile - Monitors anything from a single lighting circuit to an entire building.

Convenient - Installs without interrupting power to you or your tenants.

Flexible - Interfaces with third-party electric, water and gas meters.

Reliable - E-Mon D-Mon meters have set the industry standard for metering products for over 25 years.

Award Winning

The contractor's choice in metering

Key Features

- Provides 6 important energy metrics.
- Installation diagnostics and verification system.
- UL Listed. Revenue-grade accuracy.

E-Mon®

Class 3000 Meters

Benefits

- Easy and affordable installation virtually anywhere, including both new and retrofitted facilities.
- Measures and verifies energy-saving measures that can be used to substantiate claims on utility bills.
- Permits negotiation of better energy rates and evaluation of potential investments in new capital equipment, energy conservation equipment and energy-efficient infrastructure.
- Enables allocation and billing of energy costs for all utility services to the actual users of that energy.

Features

- Monitors a single electrical circuit, piece of equipment, department, tenant or even the entire building.
- Easy to read LCD display shows total energy consumption (kWh), current load (real-time kW), kW with peak date and time, Power Factor, Amps per phase and Volts per phase.
- Interfaces with RightEnergy software for tenant billing, cost allocation and graphing of energy usage.
- Load control option enables load shedding and demand curtailment.
- Installation diagnostics and verification system.
- UL Listed.
- Utility-grade accuracy. Meets or exceeds ANSI C12 national accuracy standards.

Specifications

- Communication options include telephone, wireless, RS-232/RS-485, Ethernet or ModBus.
- 0-2 Volt output split-core current sensors allow for remote mounting of sensors from meter without power interruption. (Optional solid-core sensors available.)
- Records kWh and kVARh data for two channels. Data is stored in 15-minute intervals for up to 36 days, or 5-minute intervals for up to 12 days. Maintains the last 36 days of data in a first-in, first-out format.
- Industrial grade JIC steel enclosure with padlocking hasp and mounting flanges for indoor installation.

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CLASS 3000 METER
kWh/DEMAND METER WITH COMMUNICATION

E-Mon D-Mon®
Metering Products & Systems

Features

- Easy-to-read cycling 4-line by 20-character backlit LCD display:
  - kWh
  - kW (with peak date and time)
  - Power factor
  - Real-time load in kW
  - Amps per phase
  - Volts per phase
- 0-2 volt output split-core current sensors allow for enhanced safety and accurate remote mounting of sensors up to 500 feet from meter without power interruption. (Optional solid-core sensors available.)
- Installation diagnostics and verification system.
- RS-485 communications capability supports up to 52 Class 3000 meters or Interval Data Recorders via 4-conductor cable (up to 4000 feet total 24-26 AWG). Cabling can be "daisy chain," "star" configuration, or a combination thereof.
- Communications Options:
  - Telephone Modem
  - RS-232/RS-485
  - Ethernet
  - ModBus
- Records kWh and kVARh data for two channels. Data stored in 15-minute intervals for up to 36 days or 5-minute intervals for up to 12 days. Maintains the last 36 days of data in a first-in, first-out format.
- External meter input (water, gas, BTU, etc.) on 3rd channel.
- Meter is designed for use on both 3-phase, 3-wire (delta) and 3-phase, 4-wire (wye) circuits. (Specify when ordering.)
- Industrial-grade JIC (Joint Industrial Council) enclosure with padlocking hasp and mounting flanges for indoor installation with three 1 1/16" KO (3/4" cond.) on bottom of enclosure.
- UL-listed. Meets or exceeds ANSI C12 national accuracy standards.
- Optional load control/alarm relay (3A, 240V max.) with high and low threshold adjustment.
- MV-90 Compatible.

Dimensions: 9 1/2" H x 6 3/4" W x 3 3/4" D

Model Numbers

120/208-240V, 3-Phase*

208100C* KIT (100 amp)
208200C* KIT (200 amp)
208400C* KIT (400 amp)
208800C* KIT (800 amp)
2081600C* KIT (1600 amp)
2083200C* KIT (3200 amp)

277/480V, 3-Phase*

480100C* KIT (100 amp)
480200C* KIT (200 amp)
480400C* KIT (400 amp)
480800C* KIT (800 amp)
4801600C* KIT (1600 amp)
4803200C* KIT (3200 amp)

Options

Telephone Modem (Suffix M)
Ethernet Communications (Suffix E)
ModBus Communications (Suffix RTU)
Load Control Option (Suffix LC)

To order options, add the specified suffix to the end of the model number (e.g., 480100CYM KIT).

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

NOTE: Specify Delta or Wye when ordering. Add suffix "Y" for Wye configuration or "T" for Delta configuration. (e.g., 480100CYE or 480100CTE)

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E-Mon®

Effective Date 10/1/2006

CLASS 3000 METER
WITH MODBUS COMMUNICATIONS

E-Mon D-Mon®
Metering Products & Systems

Features

- Easy-to-read cycling 4-line by 20-character backlit LCD display:
  - kWh
  - kW (with peak date and time)
  - Power factor
  - Real-time load in kW
  - Amps per phase
  - Volts per phase
- Meter data accessible via standard ModBus RTU protocol at 9600 baud. Data can be integrated into building/energy management systems and control systems utilizing ModBus communications. Real-time and accumulated data available. See ModBus Point Map on reverse side for data available from meter.
- 0-2 volt output split-core current sensors allow for enhanced safety and accurate remote mounting of sensors up to 500 feet from meter without power interruption. (Optional solid-core sensors are available.)
- Installation diagnostic & verification system.
- Meter is designed for use on both 3-phase, 3-wire delta and 3-phase, 4-wire wye circuits. (Specify when ordering.)
- Industrial-grade JIC (Joint Industrial Council) enclosure with padlocking hasp and mounting flanges for indoor installation with three 1 1/16" KO (3/4" cond.) on bottom of enclosure.
- UL Listed; meets or exceeds ANSI C12 national accuracy standards.

Dimensions: 9 1/2" H x 6 3/4" W x 3 3/4" D

Model Numbers

120/208-240V, 3 Phase*

208100CRTU* KIT (100 amp)
208200CRTU* KIT (200 amp)
208400CRTU* KIT (400 amp)
208800CRTU* KIT (800 amp)
2081600CRTU* KIT (1600 amp)
2083200CRTU* KIT (3200 amp)

277/480V, 3 Phase*

480100CRTU* KIT (100 amp)
480200CRTU* KIT (200 amp)
480400CRTU* KIT (400 amp)
480800CRTU* KIT (800 amp)
4801600CRTU* KIT (1600 amp)
4803200CRTU* KIT (3200 amp)

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

NOTE: Specify Delta or Wye when ordering. Add suffix "Y" for Wye configuration or "T" for Delta configuration. (e.g., 480100CRTUY KIT or 480100CRTUT KIT.)

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