Meter Engineering Specifications

E-Mon D-Mon
Energy Monitoring Products & Systems

- Meter shall be fully electronic with digital LCD display for kilowatt-hour readings. Meter shall provide rate of consumption indication and also a segment test button (CPU) to ensure integrity of the display (Class 1000, 2000, 2100 and standard Green Class meters only.)
- Meter shall provide a load indicator to indicate real-time consumption levels for field testing and certification.
- 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. (Class 1000, 2000, 2100 & 3000.)
- Meter shall be optionally available in an outdoor NEMA 4X enclosure. (Class 1000, 2000, Green Class, 3- or 4-wire meters only.)
- Meter shall be UL/CUL listed and certified by a nationally recognized independent test facility to ANSI C12.1 and C12.16 specifications with split-core current sensors.
- Meter shall be optionally available with a Demand (kW) reading. Demand reading will show the highest peak demand and date and time peak occurred. (Class 2000, 3000 and Green Class only.)
- Meter shall be provided with a non-volatile memory to maintain reading during power failures.
- Meter shall use 0-2 volt output current sensors to allow paralleling and/or mounting up to 2,000 feet from the meter (500 feet for Class 3000 meters.) Sensors shall be of split-core configuration to allow installation without powering down. Sensors shall be available from 25 amp to 3200 amp. Sensors shall be optionally available in solid-core configuration (100 & 200 amp.)
- Meter shall be provided with modular connector(s) to provide interfacing for:
  - AMR (Automatic Meter Reading)
  - Pulse modules
  - Analog signal modules
  - Energy control modules
  - Instantaneous demand displays
- Meter shall be available in multiple meter unit (MMU) configurations of up to 24 meters. (Class 1000 & 2000 meters only.)
- Meters shall be compatible with E-Mon Energy™ software.

Feature	Class 1000	Class 2000	Class 2000 w/Demand	Class 2100 Integrated Wireless	Class 3000	Class 4000	Class 4100 Integrated Wireless	Green Class	Green Class Net Meter
KWH	X	X	X	X	X	X	X	X	X
Real-time load	X	X	X	X	X			X	X
Peak Demand w/ date/time stamp			X		X				
Cost per kWh, CO2 emissions on display								X	
Delivered, Received & Net kWh									X
Non-volatile memory	X	X	X	X	Lithium Battery	X	X	X	X
Sensors may extend 2,000 ft	X	X	X	X		X	X	X	
Sensors may extend 500 ft					X				X
Solid-core sensors available*	X	X	X	X	X	X	X	X	X
Lockable enclosure	X	X	X	X	X			X	X
Nema 4X enclosure option	X	X	X	X				X	X
MMU Configuration	X	X	X	X				X	
Wireless capability**	X	X	X	X		X	X	X	
Output port for IDR	X	X	X	N/A	Integrated Data Logger	X	N/A	X	Integrated Data Logger
Volts, amps per phase, power factor, phase angle, on-board data logging & communication.					X				X

*100 & 200 amp only

** Class 2100 & 4100 equipped with built-in wireless transmitters, all other meters compatible with external wireless modules.

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