

# Meter Engineering Specifications

## A GUIDE SPECIFICATION FOR THE ENGINEER

1. 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. Meter shall provide a load indicator to indicate real-time consumption levels for field testing and certification.
2. 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 UL listed, CSA Approved and certified by a nationally recognized independent test facility to ANSI C12.1 and C12.16 specifications with split-core current sensors.
3. Meter shall be provided with a non-volatile memory to maintain reading during power failures.
4. Meter shall use 0-2 volt output current sensors to allow paralleling and/or mounting up to 2,000 feet from the meter (500 ft on Class 500 meters). Sensors shall be of split-core configuration to allow installation without powering down. Sensors shall be available from 25 amp to 3200 amp.
5. Meter shall support external inputs from gas, water and other utility meters (Class 500 only).
6. Meter shall have open protocol for easy integration to various building automation and energy management systems including optional Modbus RTU, Modbus TCP and BACnet IP. (Class 500 only).
7. Meter shall be wired using either of the following configurations (Class 200 and 500 only):
  - 3-Phase, 4-wire
  - 3-Phase, 3-wire

Feature	Class 100	Class 200	Class 500
KWH	X	X	X
Real-time load	X	X	X
Peak demand with date/time stamp			X
Non-volatile memory	X	X	Lithium Battery
Sensors may extend 2,000 ft	X	X	
Sensors may extend 500 ft			X
Lockable enclosure	X	X	X
Volts, amps per phase, power factor, phase angle, kWh, kVARh, kVA, kW, kVAR & communication			X

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