

## PowerSmart+ Essential Meter

### POWER QUALITY ENERGY MONITOR

#### SPECIFICATION DATA



#### FEATURES

- Class 0.5S IEC 62053-22 four-quadrant active and reactive energy polyphase static meter.
- True RMS, volts, amps, power, power factor, neutral current, voltage and current unbalance frequency.
- Ampere/Volt demand meter.
- Dual panel mounting configuration for 4" round or 96x96 square DIN new or retrofit installations.
- High precision 3-phase meter monitoring:
  - Voltage
  - Current
  - Power
  - Power Factor
  - Neutral current
  - Energy
  - Demand
  - Frequency
  - Load Profile
  - Voltage/current unbalance
- 3.5" monochromatic LCD display with 240x128 dot resolution adjustable update time, backlit and user defined brightness settings.
- Supplied with Power Software for meter set up and power quality analysis.
- 3 voltage inputs and 3 current transformer-isolated AC inputs for direct connection to power line or via potential and current transformers.
- Current Sensor Options:
  - Available with integrated 5 Amp current sensors for use with existing 5 Amp output current transformers.
  - Available for use with external PowerSmart current sensors. (Sold separately. See PowerSmart current sensor spec sheet for details.)
- Standard 2-wire RS-485 communication port, Modbus RTU, DNP3 and ASCII communication protocols.
- Optional Ethernet 10/100BaseT port for Modbus TCP/IP communication.
- Optionally available pre-installed inside a JIC steel enclosure with lockable window panel and 3-phase voltage terminal block.  
Dimensions: 9.06" H x 23.62" W x 6.1" D
- Three-phase total and per phase energy measurements: active, reactive, and apparent energy counters.
- Time-of-use (TOU), 4 totalization and tariff energy/demand registers x 8 tariffs, 4 seasons x 4 types of days, 8 tariff changes per day.
- One-time easy programmable tariff calendar schedule.
- Automatic daily energy and maximum demand profile log for total and tariff registers.
- Voltage and current THD, current TDD and K-Factor, up to 40th order harmonic.
- Voltage and current harmonic spectrum and angles.
- Real-time "scope mode" waveform monitoring capability.
- Simultaneous 6-channel one-cycle waveform capture at a rate of 64 samples per cycle.
- Embedded programmable controller.
- 16 control setpoints, programmable thresholds and delays.
- 1-cycle response time.



- Non-volatile memory for long-term event and data recording.
- Event recorder for logging internal diagnostic events and setup changes.
- Two data recorders, programmable data logs on a periodic basis, automatic daily energy and maximum demand profile log.
- Auto-scroll option with adjustable page exposition time; auto-return to a default page.
- LED bar graph showing percent load with respect to user-definable nominal load current.

<b>Model Numbers</b>
<b>PowerSmart Plus Meter</b> (Integrated 5 amp current sensors for use with existing 5 amp output current transformers) - E10538 - E10540 Optional Modbus TCP/IP communication via Ethernet
<b>PowerSmart Plus Meter</b> For use with PowerSmart current sensors (Ordered separately. See PowerSmart current sensor spec sheet 31-00019 for details.) - E10542 - E10544 Optional Modbus TCP/IP communication via Ethernet
<b>PowerSmart Plus Meters Enclosure Options</b> - E10627 with Modbus TCP/IP and built-in 5 amp sensors <b>with</b> enclosure - E10628 with Modbus RTU <b>without</b> sensors <b>with</b> enclosure - E10629 with Modbus TCP/IP <b>without</b> sensors <b>with</b> enclosure

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## Automation and Control Solutions

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