

PowerSmart⁺ Advanced Meter ADVANCED POWER QUALITY ENERGY MONITOR

SPECIFICATION DATA



FEATURES

- Class 0.2 four-quadrant multi-function 3-phase energy meter (true RMS, volts, amps power, power factor, neutral current, voltage and current unbalance and frequency).
- Easy to read 3-row bright LED display, adjustable update time, auto-scroll option with adjustable page exposition time and auto-return to a default page.
- LED bar graph showing percent load with respect to user-definable nominal load current.
- Supplied with Power Software for meter set up and power quality analysis.
- Advanced power quality features including embedded harmonic analyzer, voltage and current THD, current TDD and K-Factor, inter-harmonics THD, up to the 50th order harmonic.
- 3 voltage and 3 current transformer-isolated AC inputs for direct connection to power line or via potential and current transformers.
- Voltage and current harmonic spectrum and angles.
- Ampere/Volt/THD/TDD demand meter.
- Current Sensor Options:
 - Available with integrated 5 Amp current sensors for use with existing 5 Amp output current transformers.
 - Available as a metering kit with (3) split-core high accuracy current sensors available in 100, 200, 400, 800 or 1200 amp configurations.
- Standard 2-wire RS-485 communication port, Modbus RTU, DNP3 and ASCII communication protocols.
- Optional Ethernet 10/100BaseT port for Modbus TCP/IP communication.
- Two digital inputs for monitoring external contacts and receiving pulses from energy, water and gas meters.
- Two relay outputs for alarms and controls and for output of energy pulses.
- Optionally available pre-installed inside a JIC steel enclosure with lockable window panel and 3-phase voltage terminal block.
Dimensions: 14" H x 12" W x 8" D
- Time-of-Use (TOU), 8 totalization and tariff energy/demand registers x 8 tariffs, 4 seasons x 4 types of days, 8 tariff changes per day, easy programmable tariff schedule.
- Automatic daily profile for energy and maximum demand readings (total and tariff registers).
- Embedded programmable controller, 16 control setpoints, programmable thresholds and delays, relay output control, 1/2 cycle response time.
- Event recorder for logging internal diagnostic events, control events and I/O operations.
- 16 data recorders, programmable data logs on a periodic basis and on any internal and external trigger.
- Two waveform recorders, simultaneous 6-channel AC recording in a single plot, sampling rate of 32, 64 and 128 samples per cycle, 20 pre-fault cycles, up to 30 seconds of continuous recording at a rate of 32 samples per cycle.
- EN50160 Power Quality recorder (EN50160 compliance statistics, EN50160 harmonica survey statistics, onboard power quality analyzer, programmable thresholds and hysteresis, ready-for-use reports).
- Real-time waveform capture and monitoring, simultaneous 6-channel 4-cycle capture at 128 samples per cycle.



POWERSMART⁺ ADVANCED METER

- Precision internal clock with battery backup.
- 1 MB RAM with battery backup for long-term data and waveform recording.

<i>Model Numbers</i>
<p>PowerSmart Plus Advanced Meter (Integrated 5 amp current sensors for use with existing 5 amp output current transformers) - E10546 - E10548 Optional Modbus TCP/IP communication via Ethernet</p>
<p>PowerSmart Plus Advanced Meter For use with PowerSmart current sensors (Ordered separately. See PowerSmart current sensor spec sheet for details.) - E10550 - E10552 Optional Modbus TCP/IP communication via Ethernet</p>
<p>PowerSmart Plus Advanced Meter Enclosure Options - E10630 with Modbus RTU and built-in 5 amp sensors with enclosure - E10631 with Modbus TCP/IP and built-in 5 amp sensors with enclosure - E10632 with Modbus RTU without sensors with enclosure - E10633 with Modbus TCP/IP without sensors with enclosure</p>

By using this Honeywell literature, you agree that Honeywell will have no liability for any damages arising out of your use or modification to, the literature. You will defend and indemnify Honeywell, its affiliates and subsidiaries, from and against any liability, cost, or damages, including attorneys' fees, arising out of, or resulting from, any modification to the literature by you.

Automation and Control Solutions

Honeywell International Inc.
1985 Douglas Drive North
Golden Valley, MN 55422
customer.honeywell.com

© U.S. Registered Trademark
© 2013 Honeywell International Inc.
31-00016-02 JPG Rev. 12-13
Printed in United States

Honeywell