

PowerSmart Socket Meter

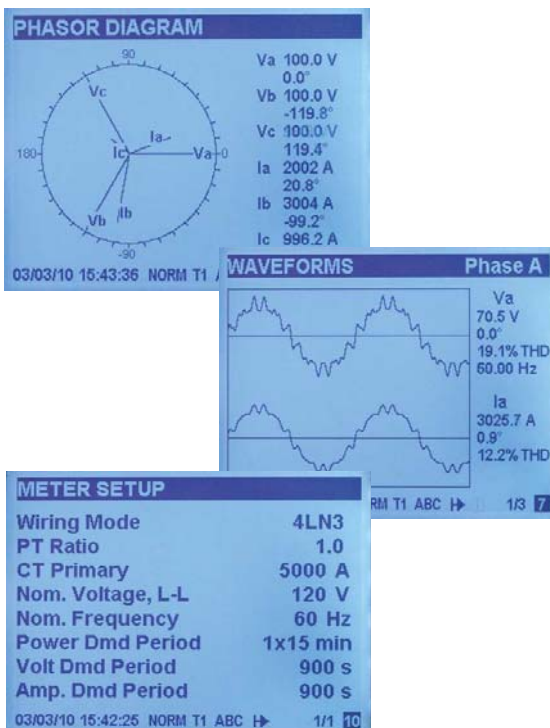
REVENUE GRADE POWER QUALITY SOCKET METER

SPECIFICATION DATA



FEATURES

- Precise Class 0.2 Active Energy & Power demand meter with easy to read 4" graphical display, multiple tariffs and Time-Of-Use, transformer and line losses, unique anti-tampering & self-test functions.
- Form 9S configuration for new or retrofit socket-style installation
- State of the art power quality recorder (onboard PQ analyzer according to EN50160, programmable thresholds with hysteresis, ready-to-use reports, sags/swells, interruptions, frequency variations, flicker, temporary over voltages, transient over voltages, voltage unbalance, harmonic and interharmonic voltages).
- Programmable controller (32 control set points, OR/AND logic, extensive triggers, programmable thresholds and delays, relay control, event-driven data recording).
- High-Class 3-phase power meter (true RMS of volts and amps, power factors, neutral current).
- Demand meter (amps, volts, harmonic demands).
- Harmonic analyzer (to 128th harmonic volts and amps, power harmonics and power factor, phaser, symmetrical components).
- Digital fault recorder (onboard fault detector-programmable fault, up to 50 Amps fault currents, zero-sequence currents and volts, current and volt unbalance, under-voltage, neutral current).
- Event recorder for logging internal diagnostics, events, control events, and I/O operations.
- PowerSmart Socket meter uses flash memory for storing device firmware that allows future upgrading of the device without replacing any hardware component. The new features can be easily added to your device by simply replacing the firmware through a local RS-232/RS-435, USB or Ethernet port.
- Isolated three-phase power supply unit from the measured voltage inputs, according to the voltage measurement input range:
 - Low range measurement input nominal rating: 57.7V AC to 120V AC (L-N).
 - High range measurement input nominal rating: 120V AC to 277 V AC (L-N).



- Four fast waveform recorders, selectable AC sampling rate 32-1024 samples per cycle, 20 pre-fault cycles, 1-ms resolution for digital inputs monitoring, up to 3 min. of continuous recording with an 8 MB onboard memory at a rate of 32 samples per cycle.
- Sixteen fast data recorders (from 1/2 cycle RMS to 2 hour RMS envelopes, up to 20 pre-fault cycles, programmable data logs on a periodic basis and on any internal and external trigger).
- 16 programmable timers from 1/2 cycle to 24 hours for periodic recording and triggering operations on a time basis.
- Built-in (2) digital optically isolated fast inputs and 1 KYZ relay output.
- Communication capabilities:
 - Standard: On-board Infrared port, isolated RS-485 port and USB device port for Modbus RTU/ASCII and DNP3.0 protocols.
 - Optional: Ethernet 10/100 Base-T port for Modbus TCP/IP or DNP3.0 TCP protocols.

<i>Model Numbers</i>
Form 9S, Three Phase, 60 Hz 120-277V AC +/-20% - E10562 with Modbus RTU - E10566 with Modbus TCP/IP
Form 9S, Three Phase, 60Hz 57.73-120V AC +/-20% (instrument rated, used with PTs and CTs) - E10564 with Modbus RTU - E10568 with Modbus TCP/IP

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Automation and Control Solutions

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

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