

S-10

Apartment Model Digital Electric Meter



3.625"H x 8"W x 3"D
Face Plate: 6.5"H x 11"W



3.75" H x 8.25"W x 3"D

Installs Within Apartment & Communicates Remotely

- Compact, Unobtrusive Design
- LCD Shows Electrical Consumption
- Reliable Power Line Communications
- Interval Data & Time of Use Capability
- Collects Data From Water & Gas Meters
- Easy to Install
- Proven Accuracy-ANSI Compliant

For over 25 years, Quadlogic has been using a patented Power Line Communications technology to transmit meter data over buildings' existing power lines. No additional wiring or meter readers are required. Leading property management companies all over the world depend on Quadlogic systems to provide reliable and accurate electric meter readings. Quadlogic meters provide all the data you need to bill tenants, allocate energy costs and make smart energy decisions.

Features

Easy To Install

Installation of this flush or surface mount design limits tenant disruption. (Knockouts available on side or back of meter.)

Integrated Power Line Communications

Utilizes existing electrical wiring for communications
Requires no additional dedicated hard wires, additional modules or attachments for communications

Tamper Resistant

Rugged steel enclosure with built-in tamper detection

Flexible Data Programming

Interval data down to 5 minutes allows flexible load profiling and Time of Use billing options

Accurate

Meets ANSI C12.1 and C12.16 specifications

Comprehensive Information

Event reporting with date and time stamps regarding power consumption, power ups and power downs, time changes, and tampers

Liquid Crystal Display

LCD provides consumption readings

Multi-utility Submetering System

Integrates and stores pulse data from gas and water meters

Data Integrity

Utilizes flash memory for accurate data storage and integrity without battery reliance

Installation Verification

Display allows on-site verification of proper installation

Manufacturer's Warranty

Three year meter warranty

Easy Access To Data

Software package available for on or off-site meter reading

QUADLOGIC

S-10 Technical Specifications



Metering Specifications

| | |
|---|--|
| Metered Voltage: | 120, 220, 240, 1Ø2W, 2Ø3W or 3Ø4W Wye, 50/60 Hz |
| Current Input: | 0.1Amp input (50A, 100A or 200A Primary) |
| Four quadrant Consumption & Demand: | Delivered and received: kW, kVARLeading, kVARLagging, & kVA Volts-squared hours & amp-squared hours |
| Programmable Interval Data & Peak Demand: | 5 min to hourly window Meter total and/or by phase |
| Real time per phase: | Voltage, current, phase angle, power factor, THD, watts, VARs, VA and frequency |
| Time of Use: | Up to 16 blocks per day available for all metering parameters |
| Meets ANSI C12.1 and C12.16 | |
| UL, UL-C File E204142 | |
| IEC Optical Communication Interface (Standard Feature) | |

Additional Features

| | |
|----------------------------------|---|
| Pulse Datalogger: | Up to 4 Form A dry contact pulse inputs for water, BTU, gas, other |
| Specifications: | Max. Distance: 300 feet from external pulse meter to S-10 (18 gauge min.) Min. Pulse Width: Power on: 50 msec, Power off: 500 msec When the S-10 loses power, the pulse accumulator still has the capability to record pulses but the sample rate is reduced. Max. Pulse Rate: Power on: 10 pulses/sec max, Power off: 1 pulse/sec max Peak voltage: 5.5V, Peak current: not applicable Isolation: 2.5kV isolation between pulse output and AC line Max. signal debounce tolerance: 20 msec |
| Data Integration Options: | IQ Software MV-90 TIM module ASCII-based, open-data protocol Open-source data conversion program |

Communications

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| Power Line Communications (standard feature) |
| Modbus RTU protocol (2-wire RS-485) |

Accuracy

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|---|
| + 0.5% @ unity and 50% power factor; 1-100% of full-scale (excluding external CT error) |
|---|

Liquid Crystal Display

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|---|
| 32 digit liquid crystal display (16 digit x 2 rows) |
| 6 whole digit consumption register |
| Data digit height: 0.31" |
| Programmable display scroll & decimal place display |

Operating Range

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| Voltage: Rated Voltage (90% to 110%) |
| Temperature: -20°C to +60°C |
| Humidity: 0 to 95% R.H. (non-condensing) |
| Transient/Surge Suppression: ANSI C37.90.1-1989 |

Memory

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|---|
| 512 kbyte non-volatile flash memory retains daily and interval data |
| During power outage: |
| - Flash memory retains daily and interval data |
| - Long-life lithium battery maintains time, logs incoming pulses and retains data acquired within the incompleting interval at the time of the outage |

Shipping Weight & Dimensions

| | 1 meter box | 8 meter box |
|----------------------------------|------------------------|--------------------------|
| Flush Mount: | 4.5 lbs | 35 lbs |
| Surface Mount: | 3.5 lbs | 29 lbs |
| Flush Mount Dimensions: | 3.625"H x 8"W x 3"D | Face Plate: 6.5"H x 11"W |
| Surface Mount Dimensions: | 3.75" H x 8.25"W x 3"D | |