

S-20

Digital Electric Socket Meter



Remote Data Transfer Through Power Line Communications Technology

- Solution for Commercial, Residential or Industrial Applications
- Available in Standard ANSI Forms
- Interval Data & Time of Use Capability
- Load Profiling
- Collects Data From Water & Gas Meters
- Easy to Install
- Proven Accuracy-ANSI and IEC 687 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

Plug-in utility design allows installation in minutes

Integrated Power Line Communications

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

Flexible Data Programming

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

Accurate

Meets ANSI C12.1, C12.16, IEC 687 specifications and stringent requirements of Measurement Canada (AE-1042)

Comprehensive Information

Event and alarm reporting with date and time stamps regarding power consumption, demand resets, power ups and power downs, time changes, tamperers, etc...

Liquid Crystal Display

LCD provides access to data

Multi-utility Submetering System

Integrates and stores pulse data from gas and water meters

Power Quality Data

Measures four-quadrant energy to analyze power quality

Tamper Resistant

Rugged enclosure design with tamper-resistant seal

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

Authorized Canadian Dealer:

QUADLOGIC

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Series-20 Technical Specifications



Metering Specifications

Metered Voltage:	120, 220, 240, 277, 347, 380, 480, 600 Delta or Wye, 50/60 Hz
Current Input:	CL10, CL20 and CL200 available
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 Block or rolling block demand 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 and 48 slots per day available for all metering parameters (accommodates seasons, holidays and daylight savings)
Meets ANSI C12.1, C12.16, IEC 687 and Measurement Canada ANSI Optical Communication Interface (Standard Feature)	

Additional Features

Pulse Datalogger:	Up to 4 Form A pulse inputs Pulses can be logged in programmable intervals Pulse will count during power outage
Specifications:	Min. wire gauge: 20 AWG Max. Length: 300 feet Max rate: 5 transitions/sec Min pulse width: 100 ms.
Sealed Demand Reset:	Allows local reset of peak demand register
Data Integration Options:	IQ Software MV-90 TIM module ASCII-based, open-data protocol Open-source data conversion program

Communications Options

Power Line Communications (standard feature)
Modbus RTU protocol (2-wire RS-485)
19.2K internal modem
Network data link (4-wire RS-485)
RS-232 serial port

Accuracy

± 0.5% @ unity and 50% power factor; 1-100% of full-scale (excluding external CT error) Test Mode
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Liquid Crystal Display

Push button scroll
32 digit liquid crystal display (16 digit x 2 rows)
6 whole digit consumption register
Data digit height: .31"
Programmable display scroll, decimal place display and unit values (kilo or mega)

Operating Range

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

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

1 meter box: 3.5 lbs	(1.59 kg)
8 meter box: 30 lbs	(13.61 kg)

QUADLOGIC

Series-20 Product Availability*

Transformer Rated (Class 10)	Self Contained (Class 200)
Form 6S - 120V	Form 1S - 120V
Form 9S - 120V, 277V & 347V	Form 2S - 240V
Form 9S Alternative -480 & 600V**	Form 11S - 120V
	Form 12S - 120, 480 & 600V
	Form 16S (14S, 17S) - 120, 277 & 347V

* Consult QLC for availability of additional models

** Consult QLC for installation diagram for Transformer Rated - Delta Voltage Applications
(0.2 Class meter available in 9S model only)

Series-20 Dimensions

