

MiniCloset-5

MULTI-TENANT DIGITAL ELECTRIC METER



Maximum Information In Minimum Space

- Solution for Commercial, Residential or Industrial Applications
- Meters up to 12 tenants
- Reliable Power Line Communications
- Interval Data & Time of Use Capability
- Load Profiling
- Collects Data From Water & Gas Meters
- Easy to Install
- Proven Accuracy-ANSI Compliant

Two Decades of Experience.

For over 20 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.

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

Features/Benefits

Space Saver

Small footprint takes up a fraction of the space of a typical meter bank installation

Cost Effective

Saves on equipment cost and installation

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 specifications and stringent requirements of Measurement Canada (AE-1148)

Comprehensive Information

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

Liquid Crystal Display

LCD provides consumption readings for each tenant

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 steel enclosure design

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



(optional installation configuration)

MiniClose-5

MiniCloset-5 Technical Specifications (MC5)

Metering Specifications

Metered Voltage:	120, 220, 240, 277, 347, 380, 480, 600 Delta or Wye, 50/60 Hz
Current Input:	0.1 Amp or 5 Amp inputs available
Field programmable:	(8) 3-phase meters, (12) network meters, or (24) single phase meters
Four quadrant Consumption & Demand for each of the 24 channels:	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 per day available for all metering parameters (except TOU)
Meets ANSI C12.1, C12.16 and Measurement Canada UL, UL-C File E204142 IEC Optical Communication Interface (Standard Feature)	

Additional Features

Pulse Datalogger Module (PDM-12):	Maximum 4 PDM-12 units per MC5 Up to 48 Form A dry contact pulse inputs for water, BTU, gas, other Power supplied by MC5 Pulses can be logged in programmable intervals and will count during power outage
PDM-12 Specifications:	Max. Distance: 300 feet from pulse meter to PDM (18 gauge min.) 300 feet of CAT5 cable (to connect all 4 PDMs to MC5) Min. Pulse Width: Power on: 50 msec, Power off: 500 msec When the MC5 loses power or is disconnected from the PDM, the PDM 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
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)
19.2K internal modem
Network data link (4-wire RS-485)

Accuracy

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

Liquid Crystal Display

Push button scroll, 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

Voltage: Rated Voltage (90% to 110%)	Humidity: 0 to 95% R.H. (non-condensing)
Temperature: (-20 C to +60 C)	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 & Dimensions

2 enclosures (each): 13.5"H x 8.5"W x 4.5"D
Field mounting option: Top to bottom or side to side
Shipping weight: 1 meter assembly: 34 lbs