

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
Meets ANSI C12.1, Industry Canada: MC#AE-1148	
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
Pulse Data Module Encoded (PDME):	Reads Sensus UI-1203 protocol-encoded register Maximum 4 PDME units per MC-5. (Up to 24 Sensus meters) (Contact manufacturer for specs.)
Demand Reset:	Allows local reset of peak demand register
Data Interrogation 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)
IEC optical probe	Network data link (4-wire RS-485)
19.2K internal modem	RS-232 serial port

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

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

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

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

For installation diagrams visit
www.quadlogic.com

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