

RSM-5c & RSM-5 Technical Specifications

► Metering Specifications

Metered Voltage: 120V, 208V, 240V, 277V, 480V (Voltage specific)
Delta or Wye, 60 Hz

Current Input: 0.1 Amp and CL10 (5 Amp input)
secondary inputs - 100 Amp to 3200 Amp primary available

Consumption & Demand Data: kWh models: kilowatt-hour consumption register
Demand models: kilowatt-hour consumption register
Peak demand with date and time stamp
Local and remote demand reset
15-minute data logging (intervals)
Factory programmable time-of-use ("TOU" "TOD")

Real time per phase: Voltage, current, phase angle, power factor, THD, watts, VARs, VA and frequency

► Standards

ANSI C12.1

UL, UL-C File E204142

► Additional Features

Pulse Datalogger (Optional): Up to 4 Form A dry contact pulse inputs for water, BTU, gas, other
Specifications: Max. Distance: 300 feet from external pulse meter to RSM-5 (18 gauge min.)
Min. Pulse Width: Power on: 50 msec, Power off: 500 msec
When the RSM-5 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 Interrogation: IQ Software

► Communications Options

Power Line Communications (standard feature)
IEC optical probe
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) (ANSI Approved)

► 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 (85% 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

► Weight & Dimensions

1 RSM-5c: 6 lbs Enclosure: 6.9"H x 9.8"W x 4.9"D (RSM-5c Kit Weight: 8.4-13.8 lbs)
1 RSM-5: 11.5 lbs Enclosure: 13.5"H x 8.5"W x 4.5"D (RSM-5 Kit Weight: 29.1-31.3 lbs)

