

Digital Electric Metering Systems  
Power Line Communications



# QUADLOGIC SUBMETERING

Smart. Digital. Advanced.



[www.quadlogic.com](http://www.quadlogic.com)



# Quadlogic Submetering...A Powerful Choice




## STATE OF THE ART TECHNOLOGY

Quadlogic is known for its innovative and reliable technology. Our patented Power Line Communications (PLC) is a standard feature in every meter, eliminating the need for additional wiring to collect data remotely.

## ENERGY EFFICIENCY AND CONSERVATION

Submetering is a critical component of today's "green buildings" initiatives. The interval data retrieved through Quadlogic's Power Line Communications remotely read metering systems empower energy managers to control and time their total energy consumption and earn LEED certification points. Submetering has a powerful impact on improving operating efficiencies and reducing expenses.



### Thinking "Green"?

Quadlogic meters can help you earn credits towards LEED certification under the "Energy and Atmosphere" criteria of several LEED Rating System categories, including:

- Existing Buildings Operations & Maintenance
- New Construction
- Core & Shell

In addition, by installing our contractor-friendly meters, you can analyze your "before and after" energy consumption and demand data to evaluate the effects of your property-wide green initiatives.

**Are you saving the electric energy you expected to?  
How will you know without metering?**

## A WEALTH OF INFORMATION IN EVERY METER

Quadlogic meters are designed to give you maximum information with multiple metering parameters like kWh consumption, peak demand with date and time stamps, demand reset, phase diagnostics and event reporting.

## OVER 25 YEARS OF EXPERIENCE

Quadlogic systems are installed throughout the world in all type of facilities--commercial and residential buildings, retail complexes, government buildings, office parks, schools and universities, hospitals and airports.

We have a staff of experts in manufacturing, engineering, technical support, client services and project management....all here to help you.



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The RSM-5c 3-phase kWh meter is an accurate and reliable digital electric kilowatt-hour meter. It is easy to install and operate and it also delivers real-time power diagnostics by phase. All metering data are securely stored in a non-volatile flash memory.

FEATURES / BENEFITS

- Commercial / Industrial utility-grade kWh meter; Revenue-grade accuracy (ANSI C12.1)
- Real-time power diagnostics by phase (Voltage, current, phase angle, power factor, THD, watts, VARs, VA and frequency)
- Event reporting (power downs, demand resets, tampers, etc.)
- Non-volatile flash memory
- Built-in Power Line Communications (PLC) for optional remote meter reading
- Communicates through distribution transformers (480/120V)
- Easy to install with mounting provisions
- Rugged steel enclosure with pad lock hasp
- Installation verification at the meter
- On site: optical port for downloading meter data
- Three-year manufacturer's warranty
- UL, UL-C, Approved by California Div. Of Measurement Standards, Maryland Public Service Commission
- Options: Pulse data inputs for water, gas, BTU

SPECIFICATIONS

- 3-phase kWh meter with CTs
- 120/208V, 120/240V, 277/480V and 480V DELTA
- 100 amp, 200 amp, 400 amp, and 800 amp\*
- Split or Solid core CTs included
- 6.9"H x 9.8"W x 4.9"D
- \*1600 amp and 3200 amp also available (See page 4)

CATALOG NUMBERS

Includes meterhead, fuse block, back box and required current transformers. See page 13-14 for CT Model information.

Meter Type Volts Amps # of CTs included  
**RSM5c 120 400 -3** (All CTs are split core unless followed by "SL", indicating solid core.)

3-Phase kWh Meter - Wye 3P/4W

Catalog #	Volts	Amps	kWh Only	CT Model
RSM5c 120100-3	120/208V	100	✓	CTSP2
RSM5c 120200-3	120/208V	200	✓	CTSP2
RSM5c 120400-3	120/208V	400	✓	CTSP4
RSM5c 120800-3	120/208V	800	✓	CTSP6
RSM5c 277100-3	277/480V	100	✓	CTSP2
RSM5c 277200-3	277/480V	200	✓	CTSP2
RSM5c 277400-3	277/480V	400	✓	CTSP4
RSM5c 277800-3	277/480V	800	✓	CTSP6
RSM5c 120100-3SL	120/208V	100	✓	CTSL3
RSM5c 120200-3SL	120/208V	200	✓	CTSL3
RSM5c 277100-3SL	277/480V	100	✓	CTSL3
RSM5c 277200-3SL	277/480V	200	✓	CTSL3

3-Phase kWh Meter - DELTA 3P/3W

Catalog #	Volts	Amps	kWh Only	CT Model
RSM5c 480DTA100-2	480V	100	✓	CTSP2
RSM5c 480DTA200-2		200	✓	CTSP2
RSM5c 480DTA400-2		400	✓	CTSP4
RSM5c 480DTA800-2		800	✓	CTSP6

Outdoor Enclosure (NEMA 4X)

Catalog #
RSM5c 4X ENC



The RSM-5c 3-phase kWh demand meter is an accurate and reliable digital electric meter. This compact device provides kWh registers, peak demand registers and 15-minute data-logging. It is easy to install and operate and it also delivers real-time power diagnostics by phase. All metering data are securely stored in a non-volatile flash memory.

FEATURES / BENEFITS

- Commercial / Industrial utility-grade kWh meter; Revenue-grade accuracy (ANSI C12.1)
- 15-minute interval data; peak demand with date and time stamp
- Real-time power diagnostics by phase (Voltage, current, phase angle, power factor, THD, watts, VARs, VA and frequency)
- Event reporting (power downs, demand resets, tampers, etc.)
- Non-volatile flash memory
- Built-in Power Line Communications (PLC) for optional remote meter reading
- Communicates through distribution transformers (480/120V)
- Easy to install with mounting provisions
- Rugged steel enclosure with pad lock hasp
- Installation verification at the meter
- On site: optical port for downloading meter data
- Three-year manufacturer's warranty
- UL, UL-C, Approved by California Div. Of Measurement Standards, Maryland Public Service Commission
- Options: Pulse data inputs for water, gas, BTU  
 Factory programmable Time-of-Use / Time-of-Day ("TOU" "TOD")

SPECIFICATIONS

- 3-phase kWh and Demand meter with CTs
- 120/208V, 120/240V, 277/480V and 480V DELTA
- 100 amp, 200 amp, 400 amp and 800 amp \*
- Split core CTs included
- 6.9"H x 9.8"W x 4.9"D
- \*1600 amp and 3200 amp also available (See page 4)

CATALOG NUMBERS

Includes meterhead, fuse block, back box and required current transformers. See page 13-14 for CT Model information.

Meter Type Volts Amps # of split core CTs included  
**RSM5c 120 400 -3 D** Demand Meter

3-Phase kWh and Demand Meter - Wye 3P/4W

Catalog #	Volts	Amps	kWh & Demand	CT Model
RSM5c 120100-3D	120/208V	100	✓✓	CTSP2
RSM5c 120200-3D		200	✓✓	CTSP2
RSM5c 120400-3D		400	✓✓	CTSP4
RSM5c 120800-3D		800	✓✓	CTSP6
RSM5c 277100-3D	277/480V	100	✓✓	CTSP2
RSM5c 277200-3D		200	✓✓	CTSP2
RSM5c 277400-3D		400	✓✓	CTSP4
RSM5c 277800-3D		800	✓✓	CTSP6

3-Phase kWh and Demand Meter - DELTA 3P/3W

Catalog #	Volts	Amps	kWh & Demand	CT Model
RSM5c 480DTA100-2D	480V	100	✓✓	CTSP2
RSM5c 480DTA200-2D		200	✓✓	CTSP2
RSM5c 480DTA400-2D		400	✓✓	CTSP4
RSM5c 480DTA800-2D		800	✓✓	CTSP6

Outdoor Enclosure (NEMA 4X)

Catalog #
RSM5c 4X ENC





The RSM-5c single-phase kWh meter is an accurate and reliable digital electric kilowatt-hour meter. It is easy to install and operate and it also delivers real-time power diagnostics. All metering data are securely stored in a non-volatile flash memory.

**FEATURES / BENEFITS**

- Commercial / Industrial utility-grade kWh meter; Revenue-grade accuracy (ANSI C12.1)
- Real-time power diagnostics (Voltage, current, phase angle, power factor, THD, watts, VARs, VA and frequency)
- Event reporting (power downs, demand resets, tampers, etc.)
- Non-volatile flash memory
- Built-in Power Line Communications (PLC) for optional remote meter reading
- Communicates through distribution transformers (480/120V)
- Easy to install with mounting provisions
- Rugged steel enclosure with pad lock hasp
- Installation verification at the meter
- On site: optical port for downloading meter data
- Three-year manufacturer's warranty
- UL, UL-C, Approved by California Div. Of Measurement Standards, Maryland Public Service Commission

**SPECIFICATIONS**

- Single-phase kWh meter with CTs
- 120/208V, 120/240V and 277/480V
- 100 amp and 200 amp
- Solid core CTs included
- 6.9"H x 9.8"W x 4.9"D

**CATALOG NUMBERS**

Includes meterhead, fuse block, back box and required current transformers. See page 13-14 for CT Model information.

Meter Type    Volts    Amps    # of CTs included  
**RSM5c 120 200 -2 SL** ● CTs are Solid Core

**Single-Phase kWh Meter - Wye**

Catalog #	Volts	Amps	kWh Only	CT Model
RSM5c 120100-2SL	120V/208V or	100	✓	CTSL3
RSM5c 120200-2SL	120V/240V	200	✓	CTSL3
RSM5c 277100-2SL	277/480V	100	✓	CTSL3
RSM5c 277200-2SL	277/480V	200	✓	CTSL3

**Outdoor Enclosure (NEMA 4X)**

Catalog #
RSM5c 4X ENC



The RSM-5 3-phase kWh and demand meters Kits are for 1600 and 3200 AMP services only. These accurate and reliable digital electric meters are easy to install and operate and they deliver real time diagnostics by phase. All metering data are securely stored in a non-volatile flash memory.

**FEATURES / BENEFITS**

- Utility-grade meter; Revenue-grade accuracy (ANSI C12.1)
- Available in kWh and demand models
- Demand models: 15-minute interval data; peak demand with date and time stamp
- Real-time power diagnostics by phase (Voltage, current, phase angle, power factor, watts, and more)
- Event reporting (power downs, demand resets, tampers, etc)
- Non-volatile flash memory
- Built-in Power Line Communications (PLC) for optional remote meter reading
- Communicates through distribution transformers (480/120V)
- Easy to install, rugged steel enclosure
- Installation verification at the meter
- Three-year manufacturer's warranty
- UL, UL-C, Approved by California Div. Of Measurement Standards; Maryland Public Service Commission
- Options: Modem/232/485, RS-485, Modbus RTU protocol (2-wire RS-485), Pulse data inputs (water, gas, BTU)  
 Factory programmable Time-of-Use / Time-of-Day ("TOU" "TOD")

**SPECIFICATIONS**

- 3-phase meter with CTs
- 120/208V, 277/480V and 480V DELTA
- 1600 amp and 3200 amp\*
- Split core CTs included
- 13.5" X 8.5" X 4.5"
- \*100 - 800 amp also available

**CATALOG NUMBERS**

Includes meterhead, fuse block, back box and required current transformers. See page 13-14 for CT Model information.

Meter Type    Volts    Amps    # of split core CTs included  
**RSM5 277 1600 -3 D** ● Demand Meter

**3-Phase kWh and Demand Meter - 3P/4W**

Catalog #	Volts	Amps	kWh Only	CT Model
RSM5 1201600-3	120/208V	1600	✓	500T
RSM5 1203200-3		3200	✓	500T
RSM5 2771600-3	277/480V	1600	✓	500T
RSM5 2773200-3		3200	✓	500T
Catalog #	Volts	Amps	kWh and Demand	CT Model
RSM5 1201600-3D	120/208V	1600	✓/✓	500T
RSM5 1203200-3D		3200	✓/✓	500T
RSM5 2771600-3D	277/480V	1600	✓/✓	500T
RSM5 2773200-3D		3200	✓/✓	500T

**3-Phase kWh and Demand Meter - DELTA 3P/3W**

Catalog #	Volts	Amps	kWh and Demand	CT Model
RSM5 480DTA1600-2D	480V	1600	✓/✓	500T
RSM5 480DTA3200-2D		3200	✓/✓	500T

**Outdoor Enclosure**

Catalog #
RSM5 4X ENC



**“2 in 1” One Meter Combines Two Electric Loads**  
(Available models: 3-Phase kWh, 3-Phase kWh & Demand)



The RSM-5 “2 in 1” Meter Kit measures and combines two separate electric loads, providing one set of meter readings. Models are available for both 3-phase kWh and 3-phase kWh and Demand applications using two sets of CT’s that are included in this kit. Quadlogic’s accurate and reliable meters provide the energy data you need to better manage energy consumption and demand and significantly reduce electricity costs. Every Quadlogic meter delivers real time diagnostics by phase (for instant installation verification) and securely stores data in a non-volatile flash memory.

**FEATURES / BENEFITS**

- Utility-grade meter; Revenue-grade accuracy (ANSI C12.1)
- Available models: kWh and kWh & Demand
- kWh & Demand models: 15-minute interval data; peak demand with date and time stamp
- Real-time power diagnostics by phase (Voltage, current, phase angle, power factor, watts, and more.)
- Event reporting (power downs, demand resets, tampers, etc.)
- Non-volatile flash memory
- Built-in Power Line Communications (PLC) for optional remote meter reading
- Easy to install
- Rugged steel enclosure
- Installation verification at the meter
- Three-year manufacturer’s warranty
- UL, UL-C, Approved by California Div. Of Measurement Standards, Maryland Public Service Commission
- Options: Modem/232/485, RS-485, Pulse data inputs (water, gas, BTU), KYZ output communication, Factory programmable for Time-of-Use (“TOU” “TOD”)

**SPECIFICATIONS**

- Three-phase meter with 6 split-core CTs
- 120/208V, 277/480V
- 100 amp, 200 amp and 400 amp
- 13.5”H X 8.5”W X 4.5”D

**CATALOG NUMBERS**

Includes meterhead, fuse block, back box and required current transformers.

Meter Type Volts Amps # of split core CTs included  
**RSM5 277 200 -6 D** Demand Meter

**RSM-5 Kits (includes High Current Adapter - HCA)  
Three-Phase kWh Meter - Wye**

Catalog #	Volts	Amps	CT model
RSM5 120100-6	120/208V	100	CTSP2
RSM5 120200-6	120/208V	200	CTSP2
RSM5 120400-6	120/208V	400	CTSP4
RSM5 277100-6	277/480V	100	CTSP2
RSM5 277200-6	277/480V	200	CTSP2
RSM5 277400-6	277/480V	400	CTSP4

**Three-Phase kWh & Demand Meter - Wye**

Catalog #	Volts	Amps	CT model
RSM5 120100-6D	120/208V	100	CTSP2
RSM5 120200-6D	120/208V	200	CTSP2
RSM5 120400-6D	120/208V	400	CTSP4
RSM5 277100-6D	277/480V	100	CTSP2
RSM5 277200-6D	277/480V	200	CTSP2
RSM5 277400-6D	277/480V	400	CTSP4

Contact manufacturer for required options (communications modules, pulse data inputs, KYZ outputs or TOU.)

To learn more about Quadlogic meters or for answers to technical questions, call 212-930-9300 or visit us at www.quadlogic.com.

**Multi-Tenant Smart Meter**



The MiniCloset-5c (MC-5c) is a multi-tenant digital electric meter in one compact, rugged enclosure. The MC-5c is easy to install and operate and its space-saving footprint is designed for use in retrofit and new construction. Our patented Power Line Communications technology is a standard feature eliminating the need for additional wiring to collect data remotely.

Understand your energy consumption and begin saving with the MC-5c as part of a complete metering system for your residential properties, commercial office sites, retail shopping malls, airports, government properties, campuses or industrial applications.

**FEATURES / BENEFITS**

- A single, compact, rugged enclosure saves significant installation costs
- Monitors up to 8 three-phase commercial customers or 12 two-phase residential customers
- Commercial / Industrial Utility-grade kWh and demand meter with revenue-grade accuracy (ANSI C12.1)
- Built-in Power Line Communications (PLC) for optional remote meter reading
- Real-time power diagnostics allow for immediate verification of installation by phase (Voltage, current, phase angle, power factor, watts, and more)
- Reports power downs, demand resets and tampers
- Secure and reliable non-volatile flash memory
- Three-year manufacturer’s warranty
- UL, UL-C, Approved by California Div. Of Measurement Standards, Maryland Public Service Commission
- Options: Modem/232/485, RS-485, Modbus, Pulse data inputs (water, gas, BTU)

**DIMENSIONS**

• 18.00”H x 10.75”W x 6.0”D

**CATALOG NUMBERS - RESIDENTIAL**

The Residential MC-5c requires a Meterhead and an Enclosure (ordered separately). Please select one of each of the following catalog numbers. Required current transformers are sold separately.

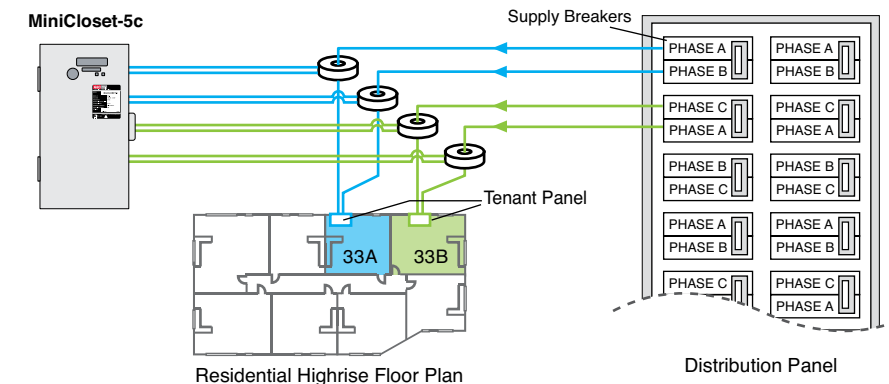
Meter Type Volts Amps # of single phase loads monitored  
**MC5c 120V L 09R**

**120/208 Single-Phase 3-Wire\***

Meterhead Catalog #	Volts	Amps	Meter Points	Enclosure Catalog #
MC5c120V L 03R	120/208	0.1	3	MC5c BBA 120V
MC5c120V L 06R			6	
MC5c120V L 09R			9	
MC5c120V L 12R			12	

**\*NOTES:**

- 1P3W 120/208V for each residential apartment where distribution panel service is 3P4W 120/208V.
- Models available for 120/240V split-phase metering. Contact manufacturer.



To learn more about Quadlogic meters or for answers to technical questions, call 212-930-9300 or visit us at www.quadlogic.com.

**CATALOG NUMBERS - COMMERCIAL**

The Commercial MC-5c requires a Meterhead and an Enclosure (ordered separately). Please select one of each of the following catalog numbers. Required current transformers are sold separately.

Meter Type    Volts    Amps    # of three-phase loads monitored  
**MC5c 277V H 06C**

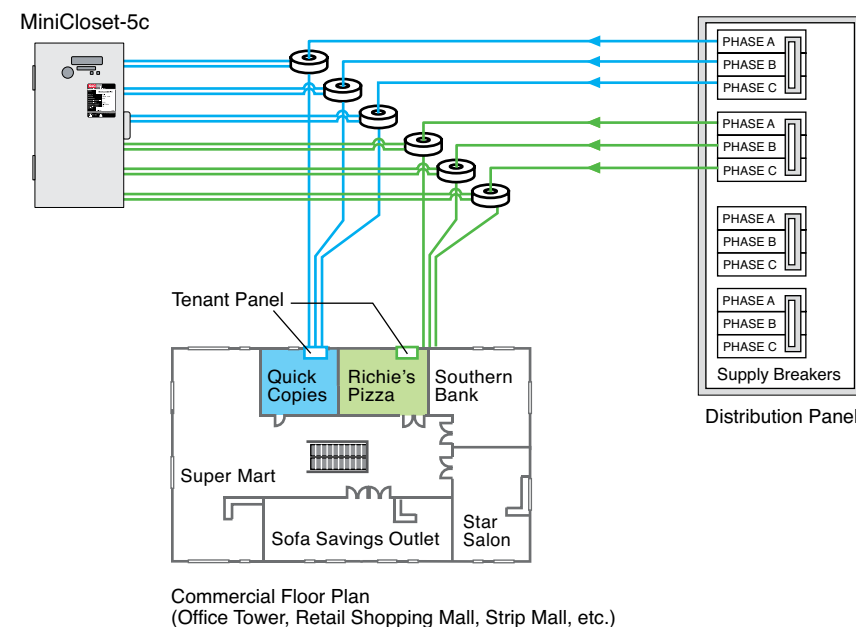
**3-Phase 4-Wire, Wye** (Also requires 3 CTs per meter point)

Meterhead Catalog #	Volts	Amps	Meterpoints	Enclosure Catalog #
MC5c120V L 06C	120/208	0.1	6	MC5c BBA 120V
MC5c120V L 08C			8	
MC5c277V L 06C	277/480	0.1	6	MC5c BBA 277V
MC5c277V L 08C			8	
MC5c120V H 06C	120/208	5	6	MC5c BBA 120V
MC5c120V H 08C			8	
MC5c277V H 06C	277/480	5	6	MC5c BBA 277V
MC5c277V H 08C			8	

**3-Phase 3-Wire, DELTA** (Also requires 3 CTs per meter point)

Meterhead Catalog #	Volts	Amps	Meterpoints	Enclosure Catalog #
MC5c208V L 12C	208	0.1	12	MC5c BBA 480V
MC5c480V L 12C	480			MC5c BBA 480V
MC5c480V H 12C	480	5	12	MC5c BBA 480V

• Add suffix for desired option (M=Modem/232/485, RS=RS-485, P=Pulse Data Module)



Dimensions:  
 13.5"H x 8.5"W x 4.5"D

The Scan Transponder-5 is the central data collector for the Quadlogic metering system. It communicates with all Quadlogic meters over the existing electric wires that serve each metered tenant in a building. This form of Power Line Communications (PLC) is a Quadlogic patented two-way technology that is robust and reliable.

**FEATURES / BENEFITS**

- Built-in Power Line Communications
- Communicates data through distribution transformers (480/120V)
- Voltage: 120/208V, 120/240V, 277/480V (Contact manufacturer for additional voltage.)
- Each device collects data for up to 240 metering points (Multiple devices can be connected via RS-485 cable)
- Non-volatile flash memory for approx. 40 days
- UL, UL-C

**COMMUNICATION OPTIONS FROM SCAN TRANSPONDER TO PC**

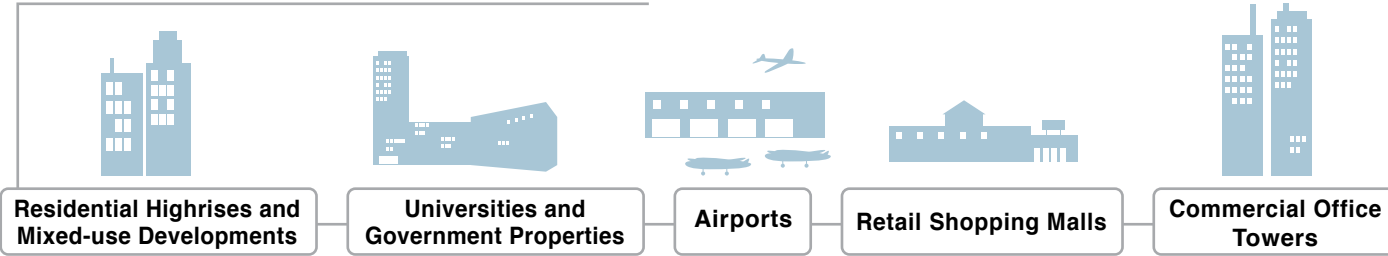
- Remote: 19.2 internal modem (for telephone connection)  
 Network data link (4-wire RS-485)  
 RS232 Serial port
- On-Site: Optical port for downloading meter data

<p><b>Verifies:</b>                  Each communication begins with clock and meter ID verification to ensure data integrity.</p>	<p><b>Collects:</b>                  Each day the ST-5 collects and verifies all previously uncollected meter readings, interval readings and event logs. (Fully programmable)</p>	<p><b>Stores:</b>                  Stores approximately 40 days of rolling interval data in non-volatile flash memory.</p>	<p><b>Reports:</b>                  The ST5 or network of ST5s is accessed from a remote meter reading system using Ethernet or a telephone modem for data transfers.</p>
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Models beginning in ST5M include a modem, RS-485 and RS-232. Models beginning in ST5 include RS-485.

Catalog Number	Includes:
ST5M-120V	Modem, RS-485, RS-232
ST5M-277V	
ST5-120V	RS-485 only
ST5-277V	

## Applications New construction or retrofit



## How does it work?

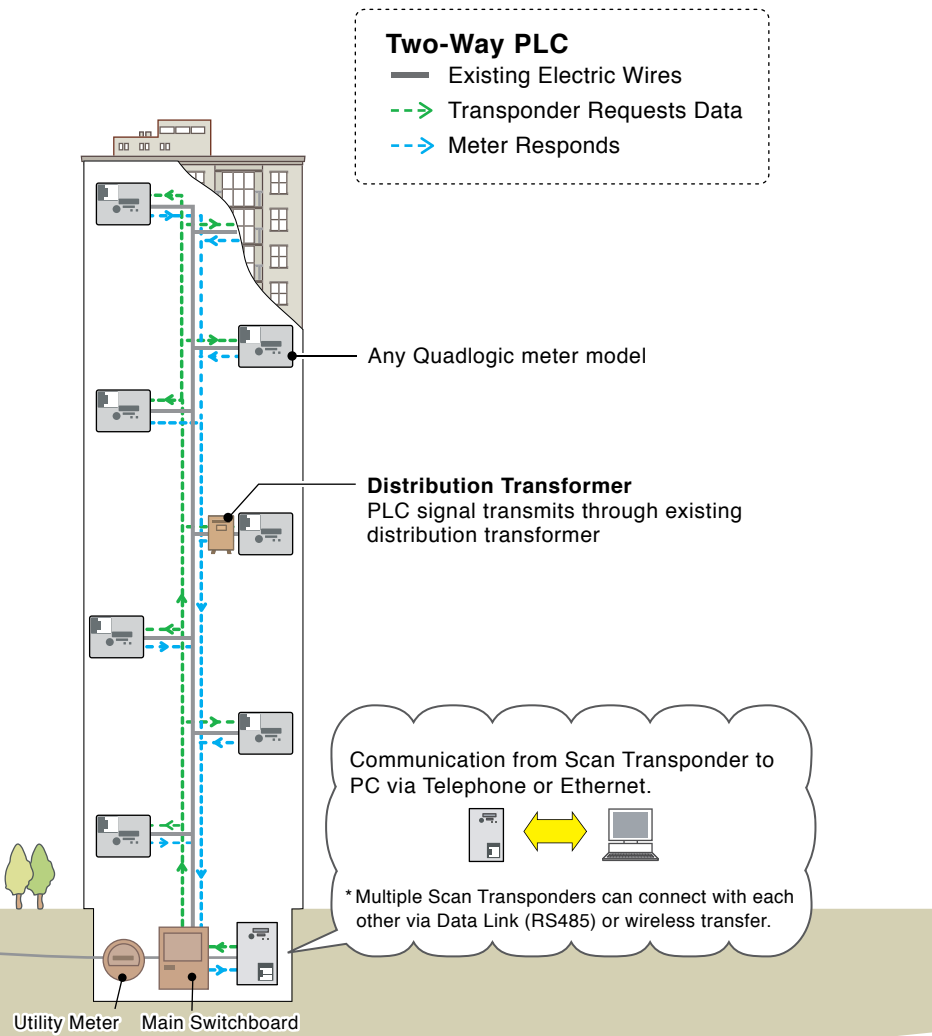
Meters, Scan Transponder (Data Collector) and phone line (or Ethernet) are installed at the site.

Each day, the Scan Transponder sends a signal to the meters over the EXISTING power lines in the building to collect the data.

Each meter responds with data over the same EXISTING power lines.

Computer (on or off site) dials into a modem in the Scan Transponder to collect data.

**Electric bills and reports are produced with that data.**



## Metering Specifications

<b>Metered Voltage:</b>	120V, 208V, 240V, 277V, 480V (voltage specific), Delta or Wye, 60 Hz
<b>Current Input:</b>	0.1 amp and CL10 (5 amp input)
<b>Primary amperage:</b>	100 amp to 3200 amp available
<b>Consumption &amp; Demand Data:</b>	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 / time-of-day ("TOU" "TOD")
<b>Real time per phase:</b>	Voltage, current, phase angle, power factor, THD, watts, VARs, VA and frequency

## Standards

ANSI C12.1  
 UL, C-UL File E204142  
 RSM5c approved by California Div. Of Measurement Standards and Maryland Public Service Commission

## Additional Features

<b>Pulse Datalogger (Optional):</b>	Up to 4 Form A dry contact pulse inputs for water, BTU, gas, other
<b>Specifications:</b>	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
<b>Data Interrogation:</b>	IQ Software

## Communications Options

Power Line Communications (standard feature)  
 IEC optical probe  
 RSM5 only: 19.2K internal modem  
 Network data link (4-wire RS-485)  
 Modbus RTU protocol (2-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

## Memory

512 kbyte non-volatile flash memory retains daily and interval data  
 During power outage:  
 - Flash memory retains daily and interval data - Minimum 60 days  
 - Long-life lithium battery maintains time, logs incoming pulses and retains data acquired within the incompletd interval at the time of the outage

## Operating Range / Environment

Rated Voltage: 90% to 110%	Usage: For indoor use only
Temperature: -20°C to +60°C	Enclosure: NEMA 1 rated (Outdoor NEMA 4X optional)
Humidity: 0 to 95% R.H. (non-condensing)	Pollution Degree: 2
Transient/ Surge Suppression: ANSI C37.90.1-1989	Maximum Altitude: 2000 meters

## Weight & Dimensions

1 RSM-5c: 6.6 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: 9.0 lbs    Enclosure: 13.5"H x 8.5"W x 4.5"D (RSM-5 Kit Weight: 29.1-31.3 lbs)

**Metering Specifications**

<b>Metered Voltage:</b>	120, 208, 220, 230, 240, 277, 347, 380, 400, 416, 480, 600 (Voltage specific) Delta or Wye, 50/60 Hz
<b>Current Input:</b>	0.1 Amp or 5 Amp (CL10) inputs available
<b>Field programmable:</b>	(8) 3-phase meters, (12) network meters, or (24) single phase meters
<b>Four quadrant Consumption &amp; Demand for each of the 24 channels:</b>	Delivered and received: kW, kVARLeading, kVARLagging, & kVA Volts-squared hours & amp-squared hours
<b>Programmable interval data &amp; Peak demand:</b>	5 min to hourly window, block or rolling block demand
<b>Real time per phase:</b>	Meter total and/or by phase Voltage, current, phase angle, power factor, THD, watts, VARs, VA and frequency
<b>Time of Use:</b>	Up to 16 blocks per day available for all metering parameters
<b>Meets ANSI C12.1, Industry Canada: MC#AE-1148</b>	
<b>UL, UL-C File E204142</b>	
<b>Approved by California Div. Of Measurement Standards and Maryland Public Service Commission</b>	

**Additional Features**

<b>Pulse Datalogger Module (PDM-12):</b>	Maximum 4 PDM-12 units per MC-5c Up to 48 Form A dry contact pulse inputs for water, BTU, gas, other Power supplied by MC-5c Pulses can be logged in programmable intervals and will count during power outage
<b>PDM-12 Specifications:</b>	Max. Distance: 300 feet from pulse meter to PDM (18 gauge min.) 300 feet of CAT5 cable (to connect all 4 PDMs to MC-5c) Min. Pulse Width: Power on: 50 msec, Power off: 500 msec When the MC-5c 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
<b>Pulse Data Module Encoded (PDME):</b>	Reads Sensus UI-1203 protocol-encoded register Maximum 4 PDME units per MC-5c. (Up to 24 Sensus meters) (Contact manufacturer for specs.)
<b>Demand Reset:</b>	Allows local reset of peak demand register
<b>Data Interrogation Options:</b>	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 incompletd interval at the time of the outage

**Operating Range / Environment**

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

**Weight & Dimensions**

18.2"H x 10.7"W x 6.1"D  
Shipping weight: 1 meter assembly: 20.8 lbs

To learn more about Quadlogic meters or for answers to technical questions, call 212-930-9300 or visit us at [www.quadlogic.com](http://www.quadlogic.com).

**Monitoring Specifications**

Voltage: 120/208V, 120/240V, 277/480V (Contact manufacturer for additional voltage.)
Communication Frequency Band: 10-90 kHz
Number of Metering Points per Scan Transponder-5 : Up to 240

**Standards**

UL and C-UL: recognized under E204142

**Liquid Crystal Display**

32-digit liquid crystal display (16 digits x 2 rows)  
6 whole digit consumption register  
Data digit height: 0.31"

**Operating Range**

Voltage: 120/208V, 120/240V, 277/480V  
Frequency: 50-60Hz  
Rated Voltage: 90% to 110%  
Temperature: -20°C to +60°C  
Operating Power: Less than 5 watts

**Memory**

4 Megabyte non-volatile flash memory retains daily and interval data  
During power outage:  
- Flash memory retains daily and interval data for approximately 40 days rolling  
- Long-life lithium battery maintains time, and retains data acquired within the incompletd interval at the time of the outage

**Environment**

Usage: For indoor use only  
Enclosure: NEMA 1 rated  
Temperature: -20°C to +60°C  
Humidity: 0-90% relative humidity (non-condensing)  
Pollution Degree: 2  
Maximum Altitude: 2000 meters

**Weight & Dimensions (1 Enclosure)**

Shipping weight: 10.6 lbs  
Dimensions: 13.5"H x 8.5"W x 4.5"D

For installation diagrams visit [www.quadlogic.com](http://www.quadlogic.com)

To learn more about Quadlogic meters or for answers to technical questions, call 212-930-9300 or visit us at [www.quadlogic.com](http://www.quadlogic.com).

RSM-5c Kits and RSM-5 Kits include the standard Quadlogic current transformer (CT) models indicated on pages 1-4. (All Kits ship with split core CTs unless the catalog number suffix is "SL" (solid core).) The charts below provide the dimensions of these and other Quadlogic CTs and their corresponding catalog numbers, should you need to order CTs separately.

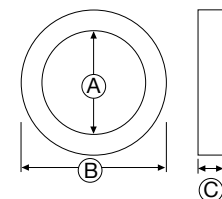
0.1 Amp Secondaries

Amp	CT Model	Catalog Number external CT	Color Lead
50	CTSL1	CTSL1 501BK	Black
	CTSL1	CTSL1 501BL	Blue
	CTSL1	CTSL1 501RD	Red
100	CTSL1	CTSL1 1001BK	Black
	CTSL1	CTSL1 1001BL	Blue
	CTSL1	CTSL1 1001RD	Red
100	CTSL3	CTSL3 1001BK	Black
	CTSL3	CTSL3 1001BL	Blue
	CTSL3	CTSL3 1001RD	Red
200	CTSL3	CTSL3 2001BK	Black
	CTSL3	CTSL3 2001BL	Blue
	CTSL3	CTSL3 2001RD	Red
400	5RL	CTSL400:.1 5RL	Black
600	6RL	CTSL600:.1 6RL	Black
800	7RL	CTSL800:.1 7RL	Black
1000	8RL	CTSL1000:.1 8RL	Black
1200	170RL	CTSL1200:.1 170RL	Black

5 Amp (CLASS 10) Secondaries

Amp	CT Model	Catalog Number external CT	Color Lead
100	AL	CTSL100:5 AL	Black
200	AL	CTSL200:5 AL	Black
400	5RL	CTSL400:5 5RL	Black

Dimensions



CT Model	A (Inner Dia.)	B (Outer Dia.)	C (Width)
CTSL1	0.61	1.42	0.85
CTSL3	1.13	2.46	1.05
AL	1.05	2.74	1.05
5RL	1.56	3.56	1.10
6RL	2.06	4.08	1.10
7RL	2.50	4.70	1.10
8RL	3.25	5.73	1.15
170RL	4.25	6.73	1.25

Dimensions expressed in inches.



CTSL1, CTSL3, AL, RL

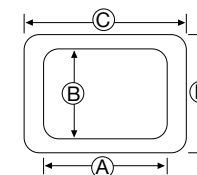
0.1 Amp Secondaries

Amp	CT Model	Catalog Number external CT	Color Lead	
50	CTSP2	CTSP2 501BK	Black	
	CTSP2	CTSP2 501BL	Blue	
	CTSP2	CTSP2 501RD	Red	
100	CTSP2	CTSP2 1001BK	Black	
	CTSP2	CTSP2 1001BL	Blue	
	CTSP2	CTSP2 1001RD	Red	
200	CTSP2	CTSP2 2001BK	Black	
	CTSP2	CTSP2 2001BL	Blue	
	CTSP2	CTSP2 2001RD	Red	
400	CTSP4	CTSP4 4001BK	Black	
	CTSP4	CTSP4 4001BL	Blue	
	CTSP4	CTSP4 4001RD	Red	
600	5SPS	CTSP600:.1 5SPS	Black	
	800	CTSP6	CTSP6 8001BK	Black
		CTSP6	CTSP6 8001BL	Blue
1200	CTSP6	CTSP6 8001RD	Red	
	5SPS	CTSP1200:.1 5 SPS	Black	
1200	7SPS	CTSP1200:.1 7 SPS	Black	
1500	7SPS	CTSP1500:.1 7 SPS	Black	
2000	7SPS	CTSP2000:.1 7 SPS	Black	
3000	7SPS	CTSP3000:.1 7 SPS	Black	
4000	7SPS	CTSP4000:.1 7 SPS	Black	

5 Amp (CLASS 10) Secondaries

Amp	CT Model	Catalog Number external CT	Color Lead
100	CTSP2	CTSP2 1005BK	Black
100	CTSP2	CTSP2 1005BL	Blue
100	CTSP2	CTSP2 1005RD	Red
200	CTSP2	CTSP2 2005BK	Black
200	CTSP2	CTSP2 2005BL	Blue
200	CTSP2	CTSP2 2005RD	Red
400	CTSP4	CTSP4 4005BK	Black
400	CTSP4	CTSP4 4005BL	Blue
400	CTSP4	CTSP4 4005RD	Red
1600	500T	CTSP1600:5 500T	Terminal Screws
2000	FCL R	CTSP2000:5 FCL R	Black
2000	FCL R4	CTSP2000:5 FCL R4	Black
3000	FCL R	CTSP3000:5 FCL R	Black
3200	500T	CTSP3200:5 500T	Terminal Screws
4000	FCL R4	CTSP4000:5 FCL R4	Black

Dimensions



CT Model	A (Inner Length)	B (Inner Height)	C (Outer Length)	D (Outer Height)
CTSP2	2.16	0.90	3.74	3.74
CTSP4	3.42	1.65	4.92	3.52
CTSP6	5.71	2.36	7.48	6.10
5SPS	4.49	2.83	5.72	5.84
7SPS	6.50	3.56	7.56	4.81
FCL R	6.63	2.75	9.38	5.50
FCL R4	11.00	4.00	13.38	6.50
500T	7.00	4.13	10.75	7.25

Dimensions expressed in inches.



CTSP2, CTSP4, CTSP6



5SPS, 7SPS



500T



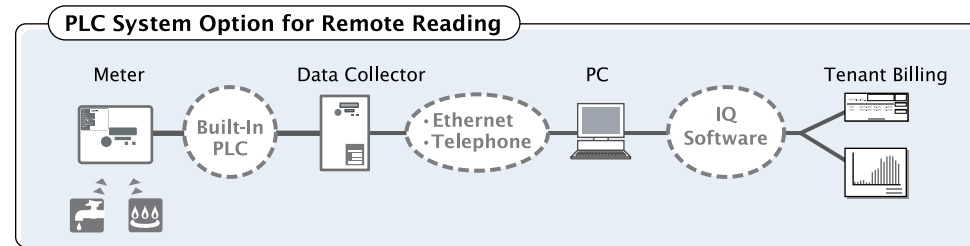
FCL R, FCL R4



Quadlogic's IQ Software is a data retrieval software package that interfaces with Quadlogic meters and systems for true AMR (Automatic Meter Reading). IQ Software accesses, organizes and stores the meter data necessary for bill generation and system maintenance. Quadlogic Metering Systems are used by utilities, third party billing companies, property managers and building engineers.

**FEATURES / BENEFITS**

- Collect interval, demand and TOU data from Quadlogic meters
- Report communication event logs
- Analyze data through charts and graphs (interval, TOU, demand)
- Perform load profiling
- Prepare basic customer utility bills
- Prepare customer usage graphs to respond to customer questions
- Manage overall system maintenance
- Configure meter database
- Export data in various formats including CSV, Excel and others

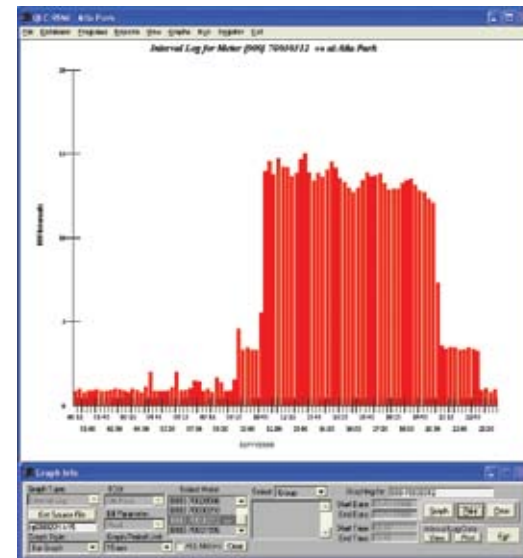


**Tenant Bills**

ELECTRICITY BILL FOR: MAKE PAYMENT TO: 3768 Sunview Lane Corp		PLEASE PAY BY: 01/15/07						
REF: 1001 Colleyville, TX 76034								
ACCT.: 8850133862								
FOR THE PERIOD: 12/01/2006 - 02/07/2006								
METER NO.	PREVIOUS READING	CURRENT READING	USAGE - KWH	PEAK DEMAND - KW	AMOUNT - \$	USAGE - KWH	KWH:	1503.1
70011397	3528.3	5031.4	1503.1	0.0	\$46.60		KW:	0.0
AMOUNT DUE - \$						\$46.60		
REF: 1001						1001		
ACCT.: 8850133862						8850133862		
KWH rate: \$ 0.031000						KWH rate: \$ 0.031000		
KW rate: \$ 0.000000						KW rate: \$ 0.000000		

Use IQ Software to generate customer utility bills right from your PC. Whether you need simple consumption data (kWh) for residential billing or more detailed metering data for commercial billing, such as time-of-use (TOU) and peak demand (kW) calculations, IQ offers the functionality you need to produce clear and concise tenant bills.

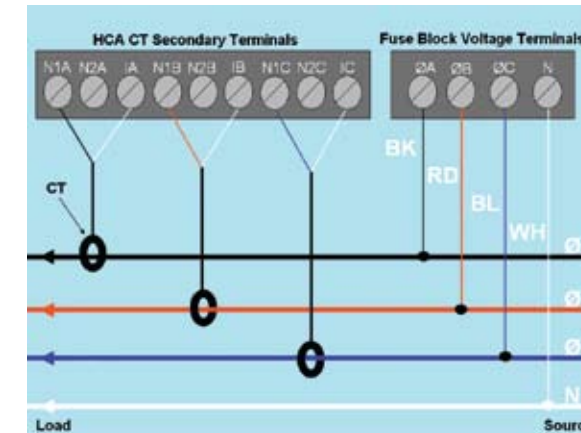
**Chart and Track Consumption and Demand**



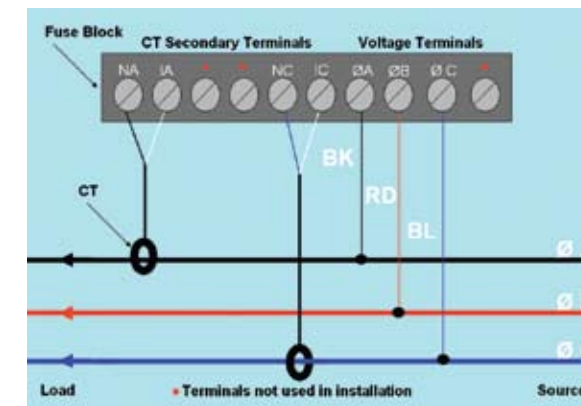
Analysis of 15-minute interval data of a typical retail store. These types of reports can help the end-consumer determine when to optimize power usage resulting in energy savings.

**RSM-5c/RSM-5**

**3-Phase 4-Wire Wye**

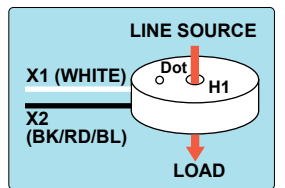
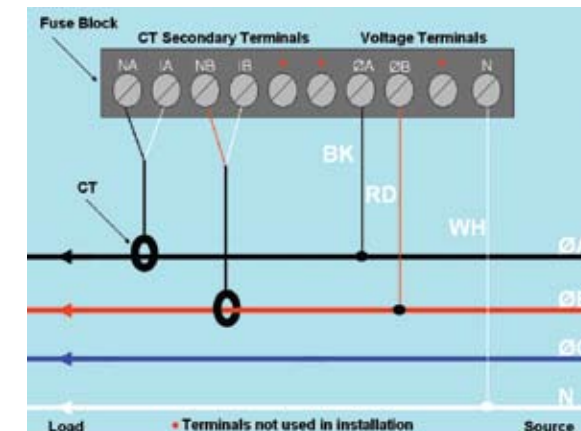


**3-Phase 3-Wire Delta**



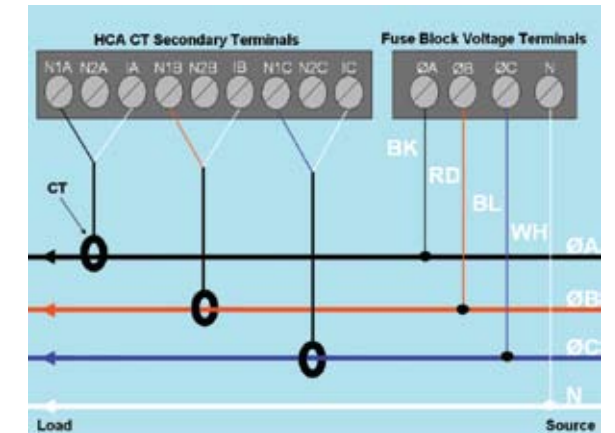
**Single-Phase 3-Wire Wye**

1-Phase, 3-wire 120/240, 120/208V or 277/480V Network

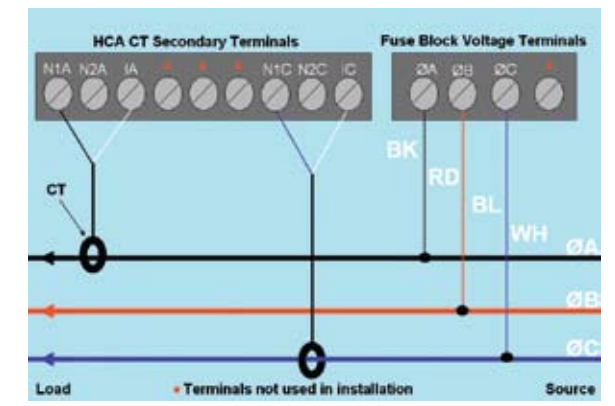


**RSM-5 CL10 (WITH HCA)**

**3-Phase 4-Wire Wye with High Current Adapter (HCA)**



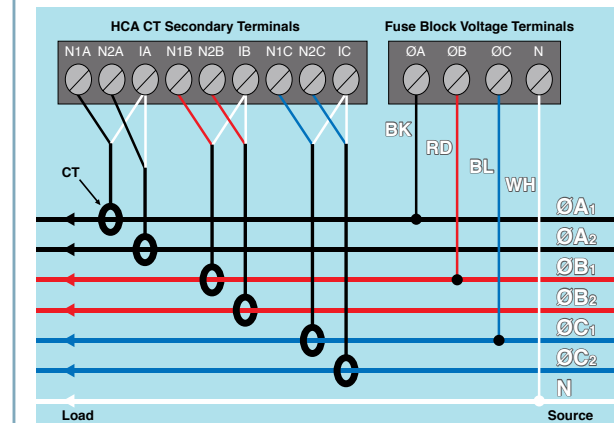
**3-Phase 3-Wire Delta with High Current Adapter (HCA)**



**2 in 1 - 6 CTs**

**3-Phase 4-Wire Wye with High Current Adapter (HCA)**

All CTs must be same primary amperage and secondary amperage must be 5Amp



We partner with developers, contractors, facility managers, energy efficiency engineers, building owners and property managers to maximize the benefits of submetering for their needs. They have come to depend on Quadlogic for product reliability, energy conservation, real estate savings and system flexibility.

### DEVELOPERS, CONTRACTORS AND ENERGY EFFICIENCY ENGINEERS

#### Dependable Technology & System Flexibility

- Patented PLC signal transmits through distribution transformers
- Monitor commercial and residential tenants with one system
- Accommodate all electrical services (voltages and amperages)
- Collect electric, water, gas, BTU and other data

#### Save Installation Time & Cost

- Save time and labor cost by using PLC and eliminating cable runs

### OWNERS AND FACILITY MANAGERS

#### Conserve Energy

- Energy conservation of up to 20% or more
- Tenant conservation facilitates demand management

#### Enable Better Management of Energy Costs

- Obtain bulk rate discount on electricity
- Shift energy-related risk from property to tenants
- Easy to evaluate energy efficiency initiatives
- Tenant rates reflect utility rate changes immediately (no lag-time losses)

#### Increase Tenant Satisfaction

- Allocate energy costs fairly and give tenants a sense of control over their consumption
- Eliminate meter readers walking the premises
- Eliminate estimates due to meter inaccessibility

#### Lower Maintenance Costs

- No battery replacement or scheduled maintenance calls

### RESIDENTIAL BUILDINGS

Trump Palace ~ Upper East Side, Manhattan, NY  
 Trump Parc ~ Central Park South, Manhattan, NY  
 Trump Place ~ Riverside Boulevard, Manhattan, NY  
 Trump Tower ~ White Plains, NY  
 Trump World Tower ~ UN Plaza, Manhattan, NY  
 Time Warner Center ~ Columbus Circle, Manhattan, NY  
 Boardwalk Center ~ Edmonton, Alberta, Canada  
 Eastpointe Condominium ~ Highlands, NJ  
 Elim Village ~ Surrey, British Columbia, Canada  
 Elmwood Square ~ Buffalo, NY  
 3 Lincoln Center ~ Lincoln Center, Manhattan, NY  
 100 Maiden Lane ~ Financial District, Manhattan, NY  
 Manhattan Park ~ Roosevelt Island, Manhattan, NY  
 Montauk Manor ~ Long Island, NY  
 Parkhaven ~ Edmonton, Alberta, Canada  
 Panorama Towers ~ Las Vegas, NV  
 Phillipse Towers ~ Yonkers, NY  
 The Plaza Hotel ~ Manhattan, NY  
 Skyview On Hudson ~ Riverdale, NY  
 Terminal City Club and Tower ~ Vancouver, BC, Canada  
 The Westin ~ Virginia Beach, VA

### RETAIL CENTERS & SHOPPING MALLS

Copley Place ~ Boston, MA  
 Time Warner Center ~ New York, NY  
 World Market ~ Las Vegas, NV  
 Edmonton Centre ~ Alberta, Canada  
 The Shops at Willowbend ~ Plano, TX  
 Sunridge Mall ~ Alberta, Canada  
 Metropolis ~ British Columbia, Canada  
 Stonebrier Centre ~ Dallas, TX  
 Aberdeen Centre ~ British Columbia, Canada  
 Atlantic Center ~ Brooklyn, NY  
 Atlantic Terminal Retail ~ Brooklyn, NY  
 Manhattan Mall ~ New York, NY  
 Coquitlam Centre ~ British Columbia, Canada  
 Fairlawn Plaza ~ Fairlawn, NJ  
 Grove Street Stores-Cali Financial Tower ~ Jersey City, NJ  
 Lincoln Mall ~ Lincoln, RI  
 Mayfair Shopping Centre ~ British Columbia, Canada  
 Queen's Place Mall ~ Queens, NY  
 Southgate Centre ~ Alberta, Canada

### PROPERTY MANAGEMENT COMPANIES

Andrews Building Corporation  
 Bellmarc Realty  
 Benjamin Partners  
 Bentall Real Estate  
 Boardwalk Equities  
 Brown, Harris, Stevens  
 CB Richard Ellis Corporation  
 Charles Greenthal  
 Continuum Health Partners, Inc.  
 Credit Suisse First Boston  
 Cushman & Wakefield  
 Douglas Elliman Property Management  
 Epcor  
 Equity Office Properties  
 Fidelity Management, Inc  
 First New York Management  
 General Growth Properties

Grenadier Realty  
 GWL Realty Advisors  
 Hawkins Delafield & Wood  
 Impac  
 Ivanhoe Cambridge  
 Janoff & Olshan  
 John Akridge Companies  
 John B. Lovett & Associates  
 Jones Lang LaSalle, Inc.  
 J.P. Day Realty, Inc  
 Lawrence Properties  
 The Lefrak Organization  
 M.J. Peterson Corporation  
 Mandarin Oriental  
 Maxwell Kates, Inc.  
 Midstate Management Corporation  
 Milford Management

Millennium Partners  
 Monarch Realty Corporation  
 Jordan Cooper & Leasing  
 National Realty Development  
 Phipps Houses Services  
 Related Management  
 Oxford Properties  
 RMI Management  
 Rose Associates  
 S.L. Green Management Corp  
 Simon Property Group Inc.  
 Stellar Management  
 Warrington PCI  
 The Trump Organization  
 The Witkoff Group  
 Tishman Speyer Properties  
 Western Management

### COMMERCIAL OFFICE TOWERS

The NY Times Building ~ New York, NY  
 The Chrysler Building ~ New York, NY  
 Bloomberg Building ~ New York, NY  
 1 NY Plaza ~ New York, NY  
 Elm Place ~ Dallas, TX  
 Baker Waterfront Plaza ~ Hoboken, NJ  
 Broadway Tech ~ British Columbia, Canada  
 Commerce Place ~ Alberta, Canada  
 Greenwich American Center ~ Greenwich, CT  
 Potomac Tower ~ Rosslyn, VA  
 Roxbury Mall E&F ~ Succasunna, NJ  
 Royal Bank Plaza ~ Toronto Ontario, Canada  
 Techworld ~ Washington, DC  
 Woodbridge Center ~ Woodbridge, NJ  
 2923 Bradley Street ~ Pasadena CA

### HOSPITALS & MEDICAL OFFICES

St. Luke's Roosevelt Hospital Housing ~ New York, NY  
 NY Hospital-Helmsley & Payson House ~ New York, NY  
 Mt. Sinai Hospital Housing ~ New York, NY  
 NY Eye & Ear Hospital Housing ~ New York, NY  
 Minema Building ~ Ridgewood, NJ

### HOTELS, RESTAURANTS, THEATRES, STUDIOS

Trump International Hotel & Tower ~ New York, NY  
 Times Square Studios ~ New York, NY  
 The Hilton Hotel ~ New York, NY  
 Embassy Suites Hotel ~ New York, NY  
 Marriott Marquis Hotel ~ New York, NY  
 Steiner Studios ~ New York, NY  
 Coastal Restaurant ~ New York, NY  
 Pier 63 Maritime ~ New York, NY

### COLLEGES & UNIVERSITIES

Brooklyn Law School ~ Brooklyn, NY  
 Columbia University Residences ~ New York, NY  
 Rockefeller University ~ New York, NY

### GREEN BUILDINGS

The Solaire ~ New York, NY  
 The Octagon ~ Roosevelt Island, New York, NY  
 The Verdesian ~ New York, NY  
 1400 Fifth Avenue ~ New York, NY

### PUBLIC HOUSING

Philadelphia Housing Authority ~ Philadelphia, PA  
 Wentworth Gardens-Chicago Housing Authority ~ Chicago, IL

Meter Type	Voltage	Quadlogic	E-Mon	
3-Phase kWh WYE	120/208	RSM5c 120100-3	208100 KIT	
	120/208	RSM5c 120200-3	208200 KIT	
	120/208	RSM5c 120400-3	208400 KIT	
	120/208	RSM5c 120800-3	208800 KIT	
	120/208	RSM5 1201600-3	2081600 KIT	
	120/208	RSM5 1203200-3	2083200 KIT	
	277/480	RSM5c 277100-3	480100 KIT	
	277/480	RSM5c 277200-3	480200 KIT	
	277/480	RSM5c 277400-3	480400 KIT	
	277/480	RSM5c 277800-3	480800 KIT	
	277/480	RSM5 2771600-3	4801600 KIT	
	277/480	RSM5 2773200-3	4803200 KIT	
	3-Phase kWh DELTA	480	RSM5c 480DTA100-2	480100 KIT
		480	RSM5c 480DTA200-2	480200 KIT
480		RSM5c 480DTA400-2	480400 KIT	
480		RSM5c 480DTA800-2	480800 KIT	
Single-Phase kWh	120/208 or 120/240	RSM5c 120100-2SL	3208100-SA KIT	
	120/240	RSM5c 120200-2SL	3208200-SA KIT	
	277/480	RSM5c 277100-2SL	2277100-SA KIT	
	277/480	RSM5c 277200-2SL	2277200-SA KIT	
3-Phase Demand WYE	120/208	RSM5c 120100-3D	208100D KIT	
	120/208	RSM5c 120200-3D	208200D KIT	
	120/208	RSM5c 120400-3D	208400D KIT	
	120/208	RSM5c 120800-3D	208800D KIT	
	120/208	RSM5 1201600-3D	2081600D KIT	
	120/208	RSM5 1203200-3D	2083200D KIT	
	277/480	RSM5c 277100-3D	480100D KIT	
	277/480	RSM5c 277200-3D	480200D KIT	
	277/480	RSM5c 277400-3D	480400D KIT	
	277/480	RSM5c 277800-3D	480800D KIT	
	277/480	RSM5 2771600-3D	4801600D KIT	
	277/480	RSM5 2773200-3D	4803200D KIT	
	3-Phase Demand DELTA	480	RSM5c 480DTA100-2D	480100D KIT
		480	RSM5c 480DTA200-2D	480200D KIT
480		RSM5c 480DTA400-2D	480400D KIT	
480		RSM5c 480DTA800-2D	480800D KIT	
480		RSM5 480DTA1600-2D	4801600D KIT	
480		RSM5 480DTA3200-2D	4803200D KIT	

\* For these meters, a separate order must be placed for required current transformers.

Whether you need to meter a residential or commercial highrise building, shopping mall, government building, airport or office park, Quadlogic can bring you all the data you need for smart energy management accurate customer billing and load profiling. All Quadlogic meter models can help you earn credits toward LEED certification under the "Energy & Atmosphere" criteria of several LEED Rating System categories.

- Patented and integrated PLC for remote reading
- Two-way through-transformer technology
- Revenue-grade accuracy (ANSI 12.1)
- Interval and TOU data
- Peak demand with date and time stamp
- Real time diagnostics by phase
- Event reporting (power downs, demand reset, tampers)
- Fully programmable
- Non-volatile flash memory
- Collection from water, gas and BTU meters
- Single platform for commercial and residential customers
- Three-year manufacturer's warranty



**Series-20**

**SOLID-STATE SOCKET METER**

- Available in standard ANSI forms
- Easy to install in meter sockets



**Series-10**

**IN-UNIT APARTMENT METER**

- Compact, unobtrusive design
- LCD shows electrical consumption
- Easy to install, flush or surface mount



*Digital Electric Metering Systems*



## **QUADLOGIC**

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