

# RSP: A game changer in sub-metering solutions



**Made to Measure**

# Sub-metering made easy for all kinds of buildings

As companies across Canada become interested in submetering as a method for lowering costs and reducing their carbon footprint, Sieco-Tech has taken up the task of designing meters that remove common barriers encountered by clients. The RSP, one of North America's most advanced smart electrical meters, is Sieco-Tech's meter designed specifically for installation inside residential suites.

## Why should I sub-meter my buildings?

Sub-metering is a proven and reliable way to lower building energy costs and carbon footprint, as well as improve building sustainability and increase building value. By pinpointing exactly how energy is used in buildings, clients are enabled to make informed decisions and reduce energy use significantly.

## My buildings are too old to sub-meter

This common barrier is exactly what the RSP is made to overcome. The meter's especially compact and sleek design makes it possible for clients to place meters in any place within the suite. This means even "difficult" buildings can benefit from sub-metering, and that meters can be placed in a discreet fashion.

## Mistakes during meter installation are common and can hurt my business

The RSP's attractive surface-mount meter base makes installing electrical meters in your building easy. By eliminating costly middle steps, the RSP offers clients a straightforward installation that they can feel confident about.

## Meter maintenance is too expensive

The RSP's innovative modular design means that electrical components of the meter can be removed as needed without having to remove anything else. This significantly reduces the costs usually associated with ongoing meter maintenance and accuracy reverification, ensuring that clients get the most out of their investment.

At Sieco-Tech, our highest priority is providing stellar customer service. You can count on us to be there for you with high quality, innovative meters that lower costs for your business and provide you with all the benefits of sub-metering.



# COMPACT RESIDENTIAL SMART ELECTRICAL METER



## EASE OF INSTALLATION

- Slim surface-mount meter base eliminates need for wall patching



## BREAKER COMPARTMENT

- Breaker Compartment with UL489 Breaker available to meet Electrical Code installation requirements



## COMMUNICATION MODULES

- G3-PLC, RF Mesh



## REAL-TIME CLOCK

- Real-Time Clock, 10-year battery (field replaceable)



## MODULAR DESIGN

- Seamless Modules: Meter, Base, Breaker, Comms



## EASE OF SERVICE

- Meter Head easily removed from Meter Base for exchange (service work, accuracy sampling, upgrades), but secured by door/seal



## TIME OF USE

- Time of Use Registers, 4 Seasons, Holidays, Interval data storage



## GATEWAY & HEAD-END SYS

- Advanced, resilient, and secure Gateway and Head-End System



## MODEL OPTIONS

- 120-240 volts, 80mA, 100mA or 5 Amp, 1-, 2-element meters

## MORE FEATURES

- Digital outputs - kWh energy (scalable, open-collector)
- Optical port - energy pulses and optical communications
- RS485 communications port (Modbus RTU Protocol)
- Pulse Inputs - Reads Dry-Contact or Open-Collector outputs from Third Party Meters (Water, Gas, Thermal, etc.)
- G3-PLC Communications (optional):
  - Secure powerline communications
  - Mesh routing determines best path between Nodes
  - IPv6 addressing and packet structure
  - Frequency Hopping
- RF Mesh Communications (optional)
- Secure:
  - Sealed after installation to prevent access
  - Tamper switch to alert of unauthorized access
  - User access to settings and data secured at multiple levels
  - 3 Levels sealing (Meter accuracy, wiring terminals, and utility access door)
- Meets Measurement Canada and ANSI C12.20 class 0.5 requirements
- Logging memory for up to 6 months hourly full kWh register readings
- Harmonic frequency energy registers and waveform capture capability (optional)

Physical Capabilities	RSP (Residential)
Rated Voltage (Service Measurement)	120-240 Vac, 50/60Hz
Environmental Conditions	Indoor use only -20°C to +60°C <90 % Non-condensing relative humidity UL/IEC PD2 (pollution degree 2)
UL489 Disconnecting breaker (optional)	2-pole 15A in supplementary enclosure
Meter Elements	1 el (1ph/2w), 2 el (2ph/3w or 1ph/3w)
Current Transformer (CT) Inputs	2x 80mA or 100mA (0.8-100mA) Or 2x 5A (0.05-5A)
2 Pulse Outputs (included)	Kp energy pulse
3 Pulse Inputs (optional)	Water, Gas, and Thermal pulse meters (100 Hz max)
Communication Ports	1 x Optical, 1 x RS485
Communication Modules (optional)	G3-PLC, RF-Mesh (installed in meter base on RS485 port)

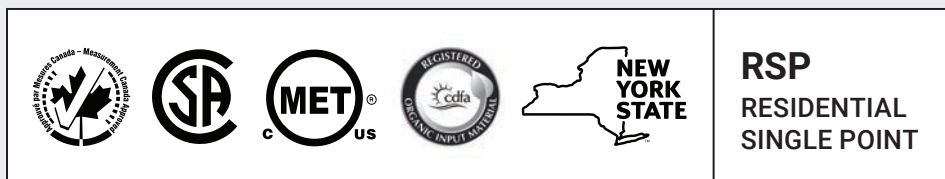
Measurement and Software Features
kWh Active Energy
Bi-Directional Energy Measurement
Current Demand
Peak Current Demand Recorded
kVARh Reactive Energy
kVAh Apparent Energy (Vectorial)
Per phase Instantaneous Volts, Amps, kW, kVAR, Phase Angle, Neutral Amps (Calc)
Total Instantaneous kW, kVAR, kVA, PF, Hz
Per phase THD-Volts, THD-Amps
Demand Response Relay Control
Real-Time Clock Hourly and Daily Logging Memory
4-quadrant Phasor Support for Wiring Check
Temperature Sensor

**Call for a demo**  
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**PHYSICAL SIZE: 8.5" H X 6" W X 2" D**  
**12.5" H WITH BREAKER OPTION**

Visit us at [siecotech.com](http://siecotech.com)



**RSP**  
**RESIDENTIAL**  
**SINGLE POINT**

