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# CSP: A bridge to the benefits of sub-metering



# Made to Measure

www.siecotech.com

# Sub-metering made easy for all kinds of real-estate properties

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 CSP, one of North America's most advanced smart electrical meters, is Sieco-Tech's offering for singleunit commercial applications. In fact, we can sub-meter your property at an office, room, or certain space area level.

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

The CSP makes sub-metering your building easy and inexpensive. Its 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 COMMERCIAL SMART ELECTRICAL METER



#### BREAKER COMPARTMENT

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



#### **COMMUNICATION MODULES**

• G3-PLC, RF Mesh, and Ethernet



#### **REAL-TIME CLOCK**

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



#### **MODULAR DESIGN**

• Seamless Modules: Meter, Base, Breaker, Comms



#### DESIGN

• 30-Year design life



#### 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**

• 120-600 volts, 80mA, 100mA or 5 Amp, 1-, 2-, 3-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)

Measurement and Software Features kWh Active Energy Bi-Directional Energy Measurement Current Demand

Physical Capabilities	CSP (Commercial)
Rated Voltage (Service Measurement)	120-600 Vac, 50/60Hz
Environmental Conditions	Indoor use only -20°C to +60°C <90% relative humidity UL/IEC PD2 (pollution degree 2)
UL489 Disconnecting breaker (optional)	Up to 240Vac
WYE (Line to Neutral), Delta (Line to Line)	WYE / DELTA jumper on meter base (CSP-480 only)
Meter Elements	1el, 2el, 3el
Current Transformer (CT) Inputs	3x 80mA or 100mA (0.8-200mA) Or 3x 5A (0.05-5A)
2 Pulse Outputs (included)	Kp energy pulse & relay control
3 Pulse Inputs (optional)	Water, Gas, and Thermal pulse meters (100 Hz max)
Communication Ports	1 x Optical, 1x RS485
Communication Modules (optional)	G3-PLC, RF-Mesh, Ethernet (installed in meter base on RS485 port)

## Call for a demo +1 548-689-9200

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Visit us at siecotech.com





CSP COMMERCIAL SINGLE POINT



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

#### PHYSICAL SIZE: 8.5" H X 6" W X 2" D