

# ELECTRO TECH™

## ELECTRIC SUB-METERING

### APPLICATIONS

- Off-peak rate
- Dual Fuel rate
- Electric heat rate
- Load survey monitoring
- Industrial equipment monitoring
- Internally installed with Peak Interrupt or Electro-Mate
- Apartment sub-metering
- Marina boat dock
- Mobile home/RV park
- Rental parking stall

FUNCTIONS LIKE A GLASS PLUG-IN METER  
7.2 Kh - REV mark - calibrate on any test bench



#### Simplifying Installation

Monitored loads are simply strung through the CT, 240-volt reference is connected to "black box" for power calculation, and digital readout is a simple 2-wire low voltage connection. Typically this module replaces the class 10 glass meter, traditional larger CT, and its associated meter socket enclosure. Inside/outside line voltage wire routing and heavy wire gauge to sustain the CT burden are all eliminated with these metering modules.



#### Outside kWh Register

This utility industry standard enclosure (sealable and weathertight) can provide a very simple low volt 2-wire connection to the inside metering module. Same digital readout common with gas/water meters.

# ELECTRONIC SUB-METER

Designed for low cost and simplified installation.

The metered load power wires are simply strung through the “doughnut” device commonly called a CT. This can be one load or several. Each power source wire is run through the CT. This becomes the current or “amp” component for the kWh energy calculation.

The meter module is connected to a convenient 240 (or 120) voltage source. The setup parameters determine whether this reference should represent 120 or 240. This becomes the voltage component for the energy kWh calculation.

The meter module has precise digital measurement capability and software to correctly monitor and record the electric energy. In addition to storing the energy kWh values within itself, there are hardware ports and software conversion options for a variety of outputs.

Visit [www.electromn.com](http://www.electromn.com) and click on Commercial, Submetering Options for additional installation and application information.

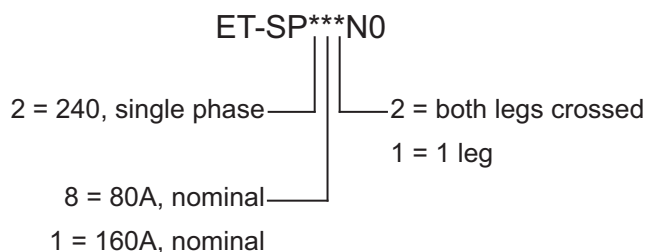
## Product Features

- Single phase
- Three CT sizes and accuracy
- 80, 160, 360-amp range
- 120 or 240 reference voltage monitor
- Internal LED's
- Non-volatile internal kWh storage
- KZ output
- kWh pulse output
- PC computer connection (special cable required)
- PC download parameters and calibration offsets
- PC amps and kW real time readout
- Field calibration, PC readout compared to known standard meter value

## Product Variables

Some configuration parameters relate to specific hardware component sizes, CT type, method of stringing CT, reference voltage, etc. These are factory assembly controlled and are represented by specific model number within the ET-SP product family.

- Single phase
- 240 reference voltage
- Maximum current - 80 or 160 nominal
- Kh = 7.2
- CT strung - both leg across or one leg only



Using PC software (and special cable) user can easily download other variables.

- Nominal power factor
- Preset internal kWh register
- Single point voltage calibration offset
- Single point current calibration offset



**ELECTRO INDUSTRIES, INC.**

2150 West River Street, PO Box 538, Monticello, MN 55362  
763.295.4138 • 800.922.4138 • fax 763.295.4434  
sales@electromn.com • www.electromn.com