

**** READ THIS FIRST ****

E-Mon D-Mon® meters provide extreme flexibility by allowing multiple SETS of current sensors to be used in parallel so multiple loads can be read by one meter. This feature allows a cumulative display for two or more loads.

Please note: The following rules must be followed so that the parallel hookup provides the correct information.

1. Current sensors must be installed in complete sets of three (3) when used for paralleling. This is necessary even when paralleling poly- with single-phase sources.
2. All parallel current sensors must be of the same rating (e.g., all 100 amp or all 400 amp, etc.). The rating will be determined by the current rating of the meter. A 200 amp meter, for example, would use extra sets of 200 amp current sensors for paralleling.
3. The reading on the meter display is affected by the paralleling of the current sensors. When using parallel sets of current sensors, the meter and pulser (if used) must be multiplied by the number of sets of current sensors to provide the correct reading.

Example: Meter with 2 sets of current sensors.....multiply by 2

Example: Meter with 3 sets of current sensors.....multiply by 3

How to size the meter when paralleling current sensors:

1. Choose the meter type you require for your application (kWh, kWh/demand, etc.).
2. Specify the voltage of the loads being monitored. (NOTE: ALL loads being monitored by one meter must be from the same voltage source.)
3. Size the meter by the highest amperage load going through one set of sensors. This will designate the amperage of the meter, as well as all current sensors installed with this meter.

Example:

Readings required: kWh

Load Voltage: 480V

Load Amperages: 60A, 40A, 80A

Highest load being monitored by ONE set of current sensors is 80 amps

Meter required: Model 480100 KIT with (2) S100CS (additional sets of current sensors)

If you have any questions concerning the paralleling of current sensors, please contact E-Mon, toll-free, at (800) 334-3666.