



Energy Meter

PowerLogic Energy Meter

The Energy Meter is ideal for stand-alone and systems-based submetering applications. It is easy to install and provides exceptional metering accuracy. Available in Basic and Extended Range models. The Basic model is designed for metering of 120/240 and 208Y/120 volt services. The Extended Range model will meter 120/240 volt up to 480 volt Wye connected services. Extended Range meters come with pulse output and phase loss output not available on the Basic unit. Optional Modbus™ RS-485 serial communications are provided with the Energy Meter Comms Board, EMCB. Optional kW demand is also provided by the EMCB.

Meter up to 3 individual services with one Energy Meter. The Energy Meter will allow the addition of up to 3 sets of parallel CTs for metering multiple electric loads. Additional sets of CTs can be ordered separately. Please refer to the multiple CT application notes in the Energy Meter instruction bulletin for the proper installation procedures.

Table 4.18: Extended Range 120/240 V to 480Y/277 V

Description	Catalog No.
Extended Range 100 A, .518"x1.28" ID, 1 CT	EME1010
Extended Range 200 A, 0.75" x 1.10" ID, 1 CT	EME1021
Extended Range 300 A, .90"x1.90" ID, 1 CT	EME1032
Extended Range 100 A, n.518"x1.28" ID, 2 CTs	EME2010
Extended Range 200 A, 0.75" x 1.10" ID, 2 CTs	EME2021
Extended Range 300 A, .90"x1.90" ID, 2 CTs	EME2032
Extended Range 400 A, 2.45"x2.89" ID, 2 CTs	EME2043
Extended Range 800 A, 2.45"x2.89" ID, 2 CTs	EME2083
Extended Range 100 A, .518"x1.28" ID, 3 CTs	EME3010
Extended Range 200 A, 0.75" x 1.10" ID, 3 CTs	EME3021
Extended Range 300 A, .90"x1.90" ID, 3 CTs	EME3032
Extended Range 400 A, 2.45"x2.89" ID, 3 CTs	EME3043
Extended Range 800 A, 2.45"x2.89" ID, 3 CTs	EME3083
Extended Range 800 A, 2.45"x5.50" ID, 3 CTs	EME3084
Extended Range 1600 A, 2.45"x5.50" ID, 3 CTs	EME3164

Table 4.19: Energy Meter Accessories

Description	Catalog No.
Energy Meter Communication Board [8]	EMCB
Energy Meter Fuse Pack, Set of 1	EMFP1
Energy Meter Fuse Pack, Set of 2	EMFP2
Energy Meter Fuse Pack, Set of 3	EMFP3
Energy Meter Bonding Kit	EMBOND

Table 4.20: Additional CT Sets

Description	Catalog No.
100 A, .518" x 1.28" ID, 1 CT	EMCT010
200 A, 0.75" x 1.10" ID, 1 CT	EMCT021
300 A, .90" x 1.90" ID, 1 CT	EMCT032
400 A, 2.45" x 2.89" ID, 1 CT	EMCT043
800 A, 2.45" x 2.89" ID, 1 CT	EMCT083
800 A, 2.45" x 5.50" ID, 1 CT	EMCT084
1600 A, 2.45" x 5.50" ID, 1 CT	EMCT164

NOTE: CT quantity and amperage must match meter model. Total of combined loads must not exceed rating of meter. All additional CTs shipped with 6 ft. white and black color-coded wire leads.

PowerLogic EM4200 Enercept Meter

Next generation Enercept meters provide a unique solution for measuring energy data. The small form factor enables retrofit installation in existing panels to save wall space, installation time, and material cost.

Designed to simplify the ordering process, the meter is available in two major options:

- **System calibrated Enercept** offers the simplest way to order. The meter comes with pre-mounted low voltage (LVCT) or Rogowski coil current transducers, as well as pre-mounted fuse packs. Ordering one part number provides a system calibrated 1% overall accuracy metering system for 100 A, 200 A, 400 A, or 5,000 A range applications.
- **Enercept Flex** offers the flexibility required for many sites where selecting the type and size of current transducer is desired. The Enercept Flex is compatible with the current transducers on . Choose split core or solid core LCVTs from [Table 4.13 LVCT Series Current Transformers, page 4-16](#), or rope style current transducers from [Table 4.12 METSECTR Series Rope-Style Current Transformers, page 4-16](#). Choose fuse packs from [Table 4.19 Energy Meter Accessories, page 4-21](#).

Features

- Uni- and bi-directional metering to support to power generation application
- Data logging
- Modbus and BACnet serial communication with auto-protocol and baud rate detection.
- Configurable with or without power
- Compact size for easy in-panel mounting, DIN rail or screw mount options, includes mounting brackets for easy installation
- Seamless integration with EcoStruxure™ Power Management software products.
- Wide 90 to 480 Vac input range
- High reliability with ANSI C12.20 0.2% accuracy, IEC 62053-22 Class 0.2S (EM4236)



EM4200 Flex Power Meter



EM4200 System Calibrated with Calibrated Rogowski Coils

[8] Energy Meter communication board (EMCB) can be used with all models of the Energy Meter. Order one EMCB for each Energy Meter where either kW demand and/or communication is specified.