



# Submetering Integrated Power Center

The submetering integrated power center combines the custom-engineered integrated power center solution by Square D® IPaCS with the advanced metering capabilities of the Square D PowerLogic® E4800 series multi-circuit energy meter all by Schneider Electric. Using a variety of Square D components, the ability to meter multiple feeder breakers inside a factory-assembled and pre-wired enclosure provides an ideal solution for multi-tenant or departmental metering applications.

## One complete solution

The submetering integrated power center provides an ideal solution for multi-tenant or departmental metering in applications such as office towers, condos, apartments, shopping centers, hospitals and hotels.

The compact PowerLogic E4800 series multi-circuit meters provide revenue-accurate electrical submetering for individual tenant billing. Detailed billing empowers tenants with information about their energy usage, allowing them to manage their total consumption while helping to reduce operational costs and offer more competitive lease rates.

It's efficient, space-saving design means big value for the customer. Manufactured to comply with NEC and UL requirements, the submetering integrated power center is factory assembled, pre-wired, inspected and tested as a single unit which means significant on-site installation savings and improved material handling efficiencies!



by Schneider Electric



Enclosure with easy to read LED display

## Space saver solutions

### Reduces space required

- The E4800 meter is mounted inside the panel enclosure integrating the two components as one, reducing the overall footprint and saving valuable floor and wall space

### Reduces on-site installation labor required

- Panels, meters and CTs are factory mounted, assembled and cabled in a single enclosure, which means installation can take hours rather than days
- Minimizes contractor labor risk due to reduction in installation hours

### Improves material handling efficiencies

- Requires fewer items to receive and install
- Wiring between the internal components (meter, CTs, optional surge suppression) is done at the factory, saving labor and eliminating associated conduit, wire and fittings

### Meets/complies with NEC and UL requirements

- Designed and manufactured to comply with National Electric Code (NEC) and UL requirements
- Equipment is factory assembled and tested in a controlled factory environment, ensuring the highest quality standards are met

### Provides bottom conduit entry/exit space

- The enclosure provides the flexibility to enter and/or exit the section from the top or bottom, saving installation time and materials
- The availability of bottom cabinet extension that can be shipped ahead and set in place saves time and ensures conduit entry is correct

## An integrated system



With fewer pieces to receive and install, the submetering integrated power center dramatically reduces installation time and material handling costs.

## Customer benefits

### Installer benefits

- Panel, meter and CTs are factory installed; all in a controlled environment providing significant labor savings
- CTs pre-wired to meter
- One factory-assembled enclosure to install verses multiple components to mount, wire and test, providing significant space and labor savings

### Facility-owner benefits

- Provide accurate energy sub-billing to tenants
- Pre-engineered solution factory tested for quality assurance
- Accurately allocate cost to departments
- Help identify cost-saving opportunities
- Lower operating expenses
- Offer protection against unbudgeted utility expenses/increases
- One factory-assembled enclosure verses multiple components saves significant space potentially reducing the size of electrical room

### Tenant benefits

- Detailed billing for better energy management
- Reduction in total consumption
- Not responsible for misuse by other tenants

## Value add features

### UL 891 listed; NEMA 1 enclosure

- Shallow 10.5 in. deep
- Multiple heights and widths available
- Full height door opens wide allowing easy access to all components
- Large conduit cutout for easy bottom cable entry/exit
- Bottom cabinet extensions can be shipped ahead and set in place, allowing conduits to be stubbed up early before the integrated power center arrives on site

### Panelboards

- 1200 A maximum mains (MB or MLO)
- 800 A maximum branch breaker
- Surge suppression optional

### PowerLogic E4800 series multi-circuit energy meter

- Single- or three-phase metering, up to 24 poles per meter
- Multiple meters can be installed in one enclosure
- Meets ANSI and IEC standards for accuracy compliance
- Ethernet communication capabilities



- Office towers
- Condominiums
- Apartment buildings
- Other multi-user environments



- Shopping centers

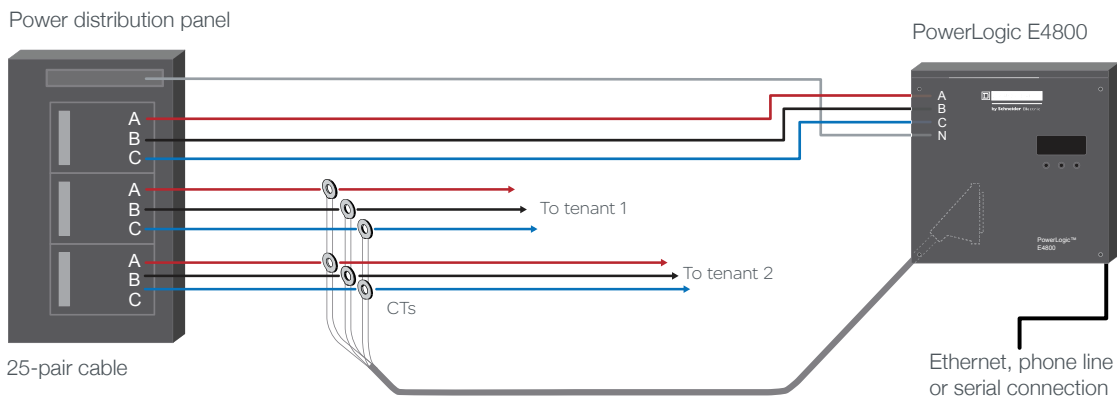


- Hospitals



- Hotels

## Typical meter connections to a multi-circuit power distribution panel





CT mounting configuration for three-phase breakers

## Overview

### Installation

- Maximum circuits per meter:\*
  - 24 using single-pole breakers
  - 12 using two-pole breakers
  - 8 using three-pole breakers

### Display

- Backlit LCD

### Metering

- Energy: real, reactive, apparent
- Energy accuracy (0.5%\*\*)
- Power: real, reactive, apparent
- Power factor
- Voltage: current

### Data recording

- Interval energy

### Communications and I/O

- Ethernet port, telephone modem, pulse input (2)

## Three meter models offer a choice of CT secondary ratings and installation options

Options	E4805	E4833	E4880
5 A	•		
0.333 V		•	
80 mA			•
Split core CT	•	•	
Solid core CT	•	•	•

\* A variety of compatible CT options are available through Schneider Electric.


\*\* Refer to measurements section inside brochure 3000BR0901 for more information.



Additional information is available based upon your customer's specific requirements. Contact your local Square D office, call Square D IPaCS at 1-800-868-9662 or visit our website at [www.schneider-electric.us/solutions/integrated-power-and-control-solutions](http://www.schneider-electric.us/solutions/integrated-power-and-control-solutions)

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