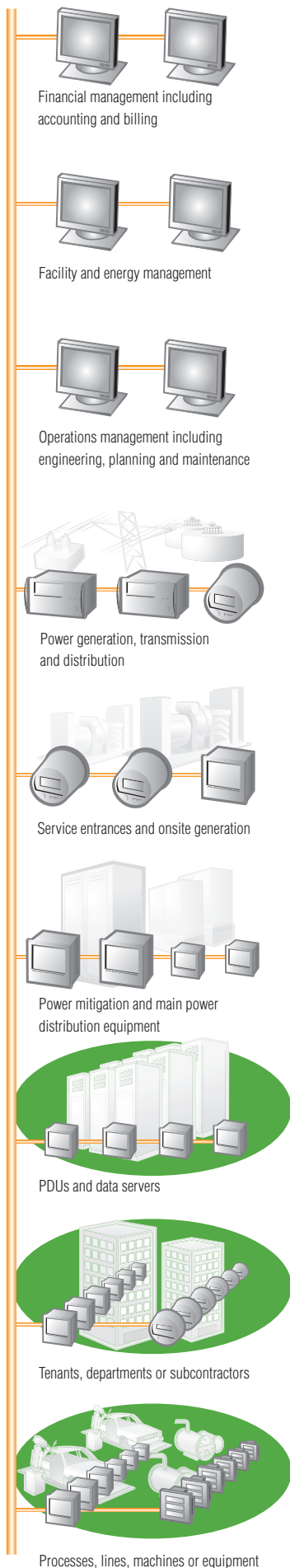


# Gain energy insight and control with PowerLogic™

PowerLogic Enercept™

power and energy meter





Typical applications of PowerLogic Enercept meters within a PowerLogic power and energy management system

## PowerLogic Enercept meter

Electrical power constitutes a major cost of business for most commercial and industrial facilities. While in the past electrical energy was often treated as an overhead cost, today more owners are treating it like any other cost and allocating it to specific cost centres such as tenants, product lines or production areas. This not only promotes better energy usage practices, it positions the owner for negotiation with deregulated utilities.

The PowerLogic Enercept meter offers a solution that makes metering practical in many applications. It is easy to include PowerLogic Enercept meters throughout an electrical system. Its three interconnected split-core CTs combine highly accurate digital metering and communications electronics inside one of the CT housings. The innovative form factor is easy to install and eliminates the need for a separate meter enclosure. All this can help reduce installation costs by as much as 70 percent. Simply snap on the CTs, connect the voltage inputs and communication lines, and installation is complete. Since the meter is inside the CT and no external PTs are required, the PowerLogic Enercept meter is a cost-effective option for basic electrical metering.

The PowerLogic Enercept meter comes in two models: basic and enhanced. They differ only in the metering information they provide. The basic meter reports power and energy. The enhanced version delivers 26 additional parameters, including volts, amps, power factor and reactive power. Both versions can be connected to either three-phase or single-phase circuits.

## Applications

- Energy savings
  - Measure efficiency, reveal opportunities and verify savings
  - Sub-bill tenants for energy costs
  - Allocate energy costs to departments or processes
  - Leverage existing infrastructure capacity and avoid over-building
- Energy availability and reliability
  - Verify the reliable operation of equipment



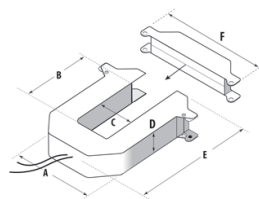
## Features and benefits

- Precision metering electronics and current transformers in a single package — reduces the number of installed components, resulting in large labor savings
- Easy-to-install split-core CTs eliminate the need to disconnect conductors
- High accuracy:  $\pm 1\%$  of reading from 10 - 100% of the rated current of the CTs. (Meter accuracy specified with conductors centred in CT window.)
- Smart electronics eliminate CT orientation errors
- Employs Modbus RTU communication protocol — simplifies integration into an existing network
- Uses RS-485 wiring — simplifies the installation process and integration into an existing network
- UL listed, cUL listed
- Optional Sub-Metering Display (SMD) - View electrical parameters with a single networked LCD. Install display on existing Modbus RS-485 RTU network to view multiple Enercept, MCM or BCM devices. Available as a panel mount or installed in an enclosure.

## Technical specifications

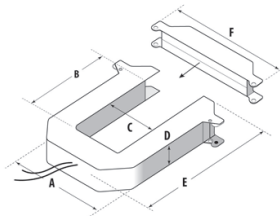
Input primary voltage	208 to 480 V ac rms
Number of phases monitored	One or three
Frequency	50/60 Hz
Primary current	Up to 2400 A continuous per phase
Internal isolation	2000 V ac rms
Case insulation	600 V ac rms
Temperature range	0 to 60° C
Humidity range	0 to 95% non-condensing
Accuracy	$\pm 1\%$ of reading from 10 to 100% of the rated current of the CTs
Output physical characteristics	RS-485, 2-wire plus shield
Baud rate	9600, 8N1 format
Protocol	Modbus RTU
Current transformer	Split-core: 100, 300, 400, 800, 1600, 2400 A

## Dimensions



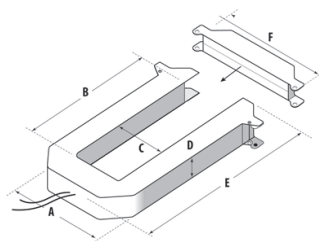
### Small - 100/300 Amp

- A = 96mm (3.8")
- B = 30mm (1.2")
- C = 31mm (1.3")
- D = 30mm (1.2")
- E = 100mm (4.0")
- F = 121mm (4.8")



### Medium - 400/800 Amp

- A = 125mm (4.9")
- B = 73mm (2.9")
- C = 62mm (2.5")
- D = 30mm (1.2")
- E = 132mm (5.2")
- F = 151mm (5.9")



### Large - 800/1600/2400 Amp

- A = 125mm (4.9")
- B = 139mm (5.5")
- C = 62mm (2.5")
- D = 30mm (1.2")
- E = 201mm (7.9")
- F = 151mm (6.0")

Key measurements	Basic	Enhanced
kWh, consumption	■	■
kW, real power	■	■
kW demand		■
kVAR, reactive power		■
KVA, apparent power		■
Power factor total		■
Average kW		■
Minimum kW		■
Maximum kW		■
Amps, average current		■
kW, per phase		■
Power factor per phase		■
Line to Line voltage, phase A-B		■
Line to Line voltage, phase B-C		■
Line to Line voltage, phase A-C		■
Line to Neutral voltage, phase A-N		■
Line to Neutral voltage, phase B-N		■
Line to Neutral voltage, phase C-N		■
Current per phase		■

Please contact your local sales representative for ordering information.

Visit [www.powerlogic.com](http://www.powerlogic.com) for more information on other PowerLogic products, applications and system solutions.



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