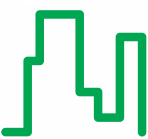


Plug into power and energy monitoring with a cost effective solution

PowerLogic® E5600 power and energy meter



Buildings



Retail



Multi-residential



SQUARE D

by **Schneider Electric**

PowerLogic E5600 power and energy meter

The PowerLogic E5600 power and energy meter provides outstanding quality, reliability and functionality in a cost-effective device. Offering ease of use, a wide voltage range, ANSI C12.20 class 0.2 accuracy and advanced self-diagnostics, it is an ideal choice for a wide variety of commercial and industrial submetering and energy efficiency applications.

The meter is easy to specify, purchase and install. Just plug it into a compatible S-base meter socket and you have a quick and easy tool to satisfy government regulations for energy saving initiatives. With its low cost of installation and ownership, and easy integration through industry-standard protocols, the meter can be paired with PowerLogic energy management software or existing systems for an economical, end-to-end solution for cost allocation and tenant sub-billing.

Typical applications

Tenant sub-billing

The meter provides accurate, economical energy monitoring for commercial and retail tenants. It lets you allocate energy costs based on actual usage levels and eliminates previously uncontrolled utility expenses.

Cost allocation

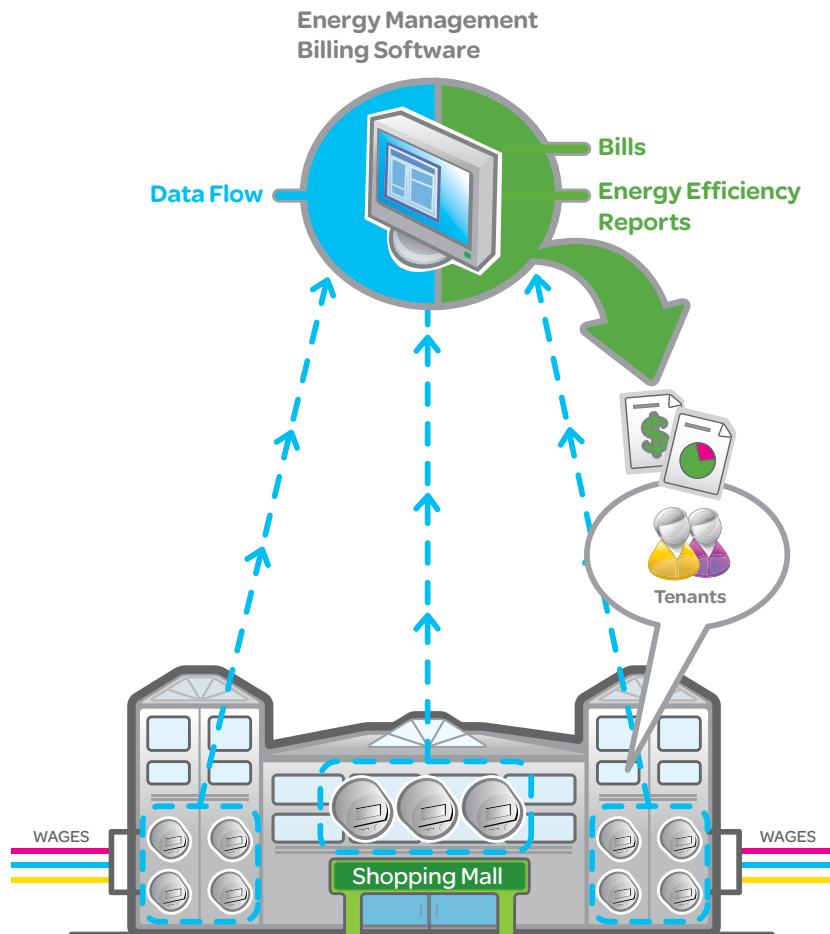
The cost-effective PowerLogic E5600 meter can monitor cost centers, identify opportunities for demand control and check energy consumption patterns. Its low total cost of ownership means you can afford to place one wherever you need.

Cost reduction

Verify the effectiveness of energy efficiency efforts by monitoring key points within your power distribution system. Collect the data you need to ensure contractual obligations are met and use the PowerLogic E5600 to help achieve LEED certification and a "green building" status.



The PowerLogic E5600 meter is an excellent choice for commercial, retail, mixed-use and multi-unit residential properties that would like to allocate energy costs in order to attract high-quality tenants, increase property values and improve energy efficiency.



Use the PowerLogic E5600 meter as part of a comprehensive billing or energy management system



Features

Installation

S-base socket compatibility enables easy retrofit into your existing metering infrastructure, greatly reducing installation costs. The meter automatically detects the service type and voltage, and displays the information on the front panel.

Mounting options

Supported S-base meter socket form factors include:

- Self-contained, Class 200 in Form 2S, 12S and 16S
- Transformer rated, Class 20 in Form 9S, 36S and 45S

Front panel

View system data through the easy-to-read LCD screen. The meter displays measurement data in numeric values, potential indicators, nominal service voltage, service type, power quadrant status, energy flow and name plate data. An alternate display provides diagnostic information.

Digital inputs and outputs

On-board meter input/output (I/O) includes two KY pulse outputs and two digital inputs that are suitable for energy pulse counting and pulse metering.

Input/output	Specification
Inputs	Two pulse counter inputs: external excitation; guaranteed ON range 9–24 VDC or VAC RMS; isolation 4 kV RMS; 50 Hz/60 Hz; 60 seconds
Outputs	Two form A: external excitation; load voltage range 12–24 VDC or VAC RMS; maximum load current 60 mA; ON resistance (typical) 10 Ohms OFF resistance (minimum) 0.5 gigaohms; isolation 4 kV RMS; 50 Hz/60 Hz, 60 seconds, maximum output transition 10 Hz

Communications

The PowerLogic E5600 offers a choice of ports and protocols.

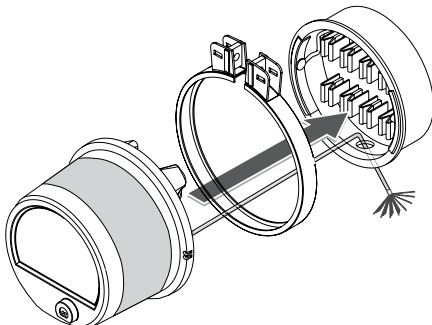
Port	Specification
Serial RS-485	Protocol: Modbus RTU; data rates 9600 bps or 19200 bps; isolation: optical; duplex: half
Optical port	Protocol: ANSI C12.19; data rate: 9600 bps; duplex: half

Data logging

128 KB of non-volatile, on-board memory provides 82 days of logged data.

Options and accessories

- USB optical communications probe
- PowerLogic ION setup configuration software
- A-base to S-base socket adapter
- Tenant Metering Software Commercial Edition (TMSCE)



Socket meter mounting



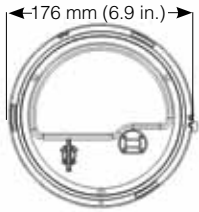
Alphanumeric display



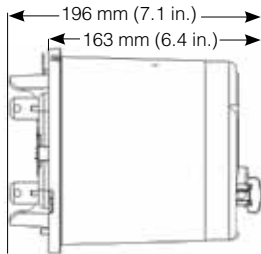
Front panel infrared communication port

Measurements

Accuracy

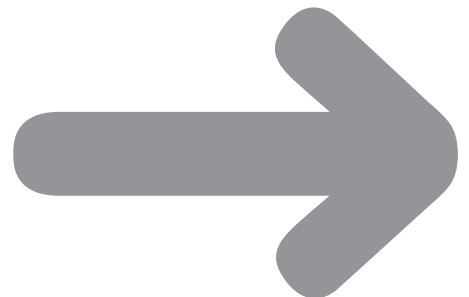


Socket meter (front view)



Socket meter (side view)

Description	Specifications
Accuracy ± (% reading)	
Power: real (kW), reactive (kVAR), apparent (kVA) Power demand: present and peak	0.2%
Energy: real (kWh), reactive (kVARh), apparent (kVAh), total, delivered and received	ANSI C12.20 Class 0.2
Environmental conditions	
Operating temperature	-40° F to 176° F (-40 C° to 80 C°)
Humidity	5% to 95% non-condensing
Installation and input ratings	
Installation and input ratings Supports direct 4-wire Wye, 3-wire Wye, 3-wire Delta and single-phase configurations	
Starting load	Class 20: 0.005 A
	Class 200: 0.050 A
High-voltage line surges (ANSI/IEEE C62)	6 kV (1.2/50 μ–8/20 μ combination wave and 100 kHz ring wave at 0.05 μS)
Surge withstand capability (ANSI C37.90A)	Oscillatory: 3 kV (1 mHz; 100 Hz, 10 seconds)
	Fast-transient: 5kV (50 pulses/second, 20 seconds)
Overvoltage withstand	Temporary (0.5 seconds): 150% of rated voltage
	Continuous (5 hours): 130% of rated voltage
Power loss duration @ Vn	100 millisecond minimum
Meter forms	Self-contained Class 200 in form 2S, 12S and 16S
	Transformer rated Class 20 in form 9S, 36S and 45S
RS485 serial interface with six foot interfacing cable–flying leads	
Optical communication interface (ANSI C12.18)	
Smoked polycarbonate case	







Please contact your local sales representative for ordering information

Visit www.PowerLogic.com for more information on other PowerLogic products, applications, services and system solutions.



"The 2007 award recognizes Schneider Electric for its technological advancements and wide product range in the field of power quality (PQ) and energy management solutions. In total, this is the fourth award that Schneider Electric and [recently acquired] Power Measurement have received from Frost & Sullivan in recognition of achievements in this arena." Prithvi Raj, Frost & Sullivan research analyst.




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