EV55 series
PowerLogic®-compatible socket style meter

The PowerLogic-compatible socket style 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 sub-metering 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-compatible socket style 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-compatible socket style to help achieve LEED certification and a "green building" status.

EV55 Socket style meters

S-base meter socket form factor options include:

- Self-contained, Class 200 in Form 2S, 12S and 16S
- Transformer rated, Class 20 in Form 5S, 6S and 9S

Data communication options include:

- Internal communications card provides meter data via RS485 wired LAN using industry-standard Modbus RTU protocol
- Internal 900Mhz wireless transceiver provides meter data up to 1000 meters clear line-of-sight distance to a radio gateway / repeater with Modbus TCP Ethernet LAN connection
- Internal 4G LTE modem provides meter data through cellular data service using standard ANSI C12.19 data table format

Life Is On | Schneider Electric

EV55 series selection guide

Meter		Communications		
Form	Class	RS485 Modbus	Wireless	4G LTE Modem
9S	20A	EV559N4Q1P	EV559N3J1P	EV559NUK1P
6S	20A	EV556N4Q1P	EV556N3J1P	EV556NUK1P
5S	20A	EV555N4Q1P	EV555N3J1P	EV555NUK1P
2S	200A	EV552L4Q1P	EV552L3J1P	EV552LUK1P
12S	200A	EV55ML4Q1P	EV55ML3J1P	EV55MLUK1P
16S	200A	EV55ZL4Q1P	EV55ZL3J1P	EV55ZLUK1P
Accessories				
900 Mhz radio data gateway / repeater for wireless meters				EV55WDG
Optical cable, required for meter configuration				EV55CABLE

Specifications

Operating range
Input Voltage: 120 - 480 VAC
Frequency: 50/60 Hz +/- 5%
Temperature: -40 to +85 Degree C
Relative Humidity: 5 to 95%

Measurements
Accuracy Class +/- 0.2%
RMS Voltage and Current by phase
Phase Angle, each phase
Power Factor: Total, each phase

Energy
kWh delivered: Total and each phase
kVAh delivered: Total and each phase
kVARh delivered: Total and each phase
kWh: Quadrants 1, 2, 3, & 4
kVARh: Quadrants 1, 2, 3, & 4

Demand
Cumulative and continuously cumulative demand
Demand reset date
Peak kW, kVA, kVAR with date

Time of Use
kWh: Rates A, B, C, and D
Demand kW: Rates A, B, C, and D

Features
Magnetically Shielded Current Transformer(s)
12 Channels of Load Profile
Time of Use
Event Log
Alternate Mode with programmable display values
Battery options for Display, Ram, and Clock
30 Digit User Defined Security Key
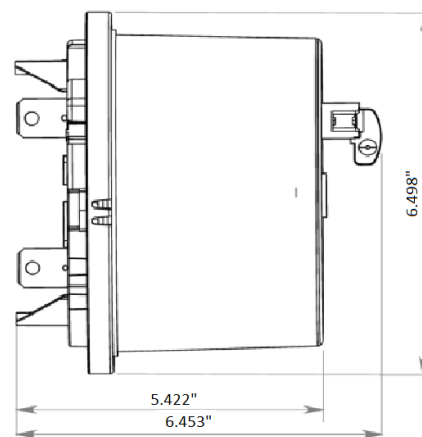
Standards Compliance
ANSI C12.18: Protocol Specification for ANSI Type 2 Optical Port
ANSI C12.19: Utility Industry End Device Data Tables
ANSI C12.20: Electricity Meter—0.2 and 0.5 Accuracy Classes
ANSI C37.90.1: Standard for Surge Withstand Capability Tests
AES 256 Security with Certificate Handling (4G LTE)

EV55 meter dimensions
6.498"
5.422"
6.453"

900 Mhz radio data gateway

As standards, specifications and designs develop from time, always ask for confirmation of the information given in this publication.

Schneider Electric