



POWER SQUAD 24

Multi-Circuit Power Meter

The Power Squad 24 is a versatile, multi-channel power meter designed to significantly reduce overall installation cost. The modular design allows it to be configured for monitoring multiple electrical circuits (sharing a common voltage source) or for current-only monitoring of branch circuits. It can be supplied with virtually any combination of Setra's internally-shunted split-core or Patrol Flex CT's and is capable of monitoring up to 8 three-phase or 24 single-phase electrical devices.

Application Flexibility

The Power Squad 24 works with either Rogowski Coil "flex" CT's or conventional split-core CT's. The ability to have interchangeable CT's gives added flexibility for last minute changes at the job site. All Setra CT's are internally shunted and carry either UL or ETL certification as well as the CE Mark. Every Power Squad 24 is embedded with the necessary amplifier/integrator circuitry for Rogowski coil CT's—eliminating the need to provide external power to these flexible CT's.

Easy Installation

The Power Squad 24 series instruments are line-powered and do not require external power. Its power supply can accommodate service voltages ranging from 80-600V (phase-to-phase). The Power Squad 24's flexibility, and ease-of-use make it the ideal solution for commercial, industrial, government, and retail applications.

Field Selectable Communications

Each Power Squad 24 comes with a field selectable Modbus or BACnet communication. Communications interface to the Power Squad 24 is through either an RS-485 serial connection (BACnet MS/TP / Modbus RTU) or over Ethernet (BACnet IP / Modbus TCP).



- **Configure & Power Through USB**
- **Field Selectable BACnet/Modbus (4-in-1)**
- **5 Year Warranty**

Power Squad Features:

- Revenue Grade Approved by NRTL
- Configure & Power Through USB
- Monitors 8 Three-Phase or 24 Single-Phase Devices
- UL 610 Rated & BTL Certified
- Phase-Check LED's Confirm Wiring
- Rogowski Coil & Split-Core CT Compatible
- Field Selectable BACnet/Modbus (4-in-1)
- Broadband Power Supply (80-600V)
- Bidirectional
- Digital Pulse Input & Output
- ANSI C12.20-2010 Class 0.2

Applications:

- Measurement & Verification
- Healthcare Facilities
- Energy Cost Allocation
- High Density Electrical Distribution Panels
- LEED Projects

Power Squad 24

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ORDERING INFORMATION

S P S 2 4 - [] - []

Model	Enclosure		Communication Port	
SPS24= Setra Power Squad 24	D	Enclosure	E	Ethernet
	N	None	S	Serial

ACCESSORIES

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900900-G	USB Communication Cable, Type A to B, Power Patrol
900901-G	USB Flash Drive, HeadStart Software, Power Patrol

MODBUS REGISTER/BACNET OBJECT DESCRIPTION LIST

System True Energy (kWh)	Individual Phase to Phase Voltages
Instantaneous Total True Power (kW)	Line Frequency (Hz)
Peak Demand (Adjustable Window) (kW)	Individual Phases True Energy (kWh)
Maximum Instantaneous Power (kW)	Individual Phases True Power (kW)
System Reactive Energy (kVARh)	Individual Phases Reactive Energy (kVARh)
System Apparent Energy (kVAh)	Individual Phases Reactive Power (kVAR)
System Apparent Power (kVA)	Individual Phases Apparent Energy (kVAh)
System Displacement Power Factor (dPF)	Individual Phases Apparent Power (kVA)
System Apparent Power Factor (aPF)	Individual Phases Apparent Power Factor (aPF)
Average Current (Amps)	Individual Phases Displacement Power Factor (dPF)
Average Line to Line Voltage (Volts)	Individual Phases Current (Amps)
Average Line to Neutral Voltage (Volts)	Individual Phases Line to Neutral Voltages (Volts)
Multiple Meters External Data Synchronization	Individual Phases Line to Line Voltages (Volts)
Refer to Operating Manual For Complete List	