



PowerHawk[®] 4000 Series Smart Meters

Energy Management Meters

Triacta's PowerHawk[®] 4000 series of smart energy management meters are used to meter or monitor remote loads in multi-tenant buildings, commercial, industrial or institutional spaces. They can be used on their own or seamlessly integrated with existing Building Automation Systems, Internet Protocol (IP) based IT servers, and business applications such as Energy Management Systems.

Triacta meters are built using standard industry protocols and ship with remotely upgradable firmware — making the 4000 series a future-proof solution that will perform for years to come. Reliable, full-featured, and fully networkable, PowerHawk meters can be quickly installed for both new construction and retrofits.

PowerHawk[®] 4X06 Multi-point Meter

Designed to meter or monitor branch offices, remote loads, and other low density applications. The PowerHawk[®] 4X06 provides six meter elements that can be configured for 1, 2 (network), and 3 element meters.

PowerHawk[®] 4X24 High Density Meter

A high density energy management meter designed for multi-tenant buildings, medium-sized retail and institutional spaces, or any other high density application. The PowerHawk[®] 4X24 meter provides twenty-four meter elements that can be configured for 1, 2 (network), and 3 element meters.

Key Features

- ✓ Measures Wh delivered & received, VARh delivered & received, VAh, Vrms, Irms, Watt demand, VA demand
- ✓ MODBUS[®] and BACnet[®] protocols for building automation integration
- ✓ Internet Protocol: TCP/IP, DHCP, HTTP, PPP, SNMP, FTP
- ✓ Datalogging: Non-volatile flash memory unaffected by power outages, stores up to 2.4 years of interval data
- ✓ Remotely upgradable firmware for future protocol support



TRIACTA
SUBMETERING BEYOND MEASURE™

Features & Specifications

	4X06 Meters	4X24 Meters
Metering Elements	Electronic solid state device provides up to 6 single phase meters, 3 two phase or 2 three phase meters	Electronic solid state device provides up to 24 single phase meters, 12 two phase or 8 three phase meters
Current Output	<ul style="list-style-type: none"> • 4106 supports 100mA CTs • 4206 supports split-core 333 mV CT's • 4306 supports 80 mA output CTs 	<ul style="list-style-type: none"> • 4124 supports 100mA CTs • 4224 supports split-core 333 mV CT's • 4324 supports 80 mA output CTs
Communications Interfaces	<ul style="list-style-type: none"> • Single 10/100BASE-T Ethernet Port • TCP/IP: HTTP, FTP, PPP, SNMP, DHCP • Building Automation: MODBUS®-TCP, MODBUS-RTU over RS-485, BACnet® IP • Communications Header accommodates Wireless Communications Module 	
Physical Characteristics	<ul style="list-style-type: none"> • Size: 33.7cm(h) x 34.3cm(w) x 6.4cm(d) -or- 13.25in(h) x 13.5in(w) x 2.5in(d) • Weight: 4.54 kg (10 lbs) 	<ul style="list-style-type: none"> • Size: 33.7cm(h) x 34.3cm(w) x 6.4cm(d) -or- 13.25in(h) x 13.5in(w) x 2.5in(d) • Weight: 4.54 kg (10 lbs)
Specifications	<ul style="list-style-type: none"> • Control Voltage: 120V, 230V, 240V, 277V (Higher voltage supported with potential transformers) • Reference Voltage: 100V-300V (Higher voltage supported with potential transformers) • Voltage Tolerance: +/- 10% • 50Hz and 60Hz models • Service Type: Single, Poly & 3-Phase + Neutral • Accuracy: ANSI C12.20 0.5 Accuracy Class • Measurements: Wh delivered & received, VARh delivered and received, VAh, Vrms, Irms, Watt demand, VA demand • Logged Interval: 1 to 60 minutes • Operating Temperature: -40 to 70°C • Operating Humidity: 0 to 90% non-condensing • For indoor use only; NEMA4 cabinet available for outdoor applications • Maximum Altitude: 3000m • Pollution Degree: 2 	
Regulatory Approvals	<ul style="list-style-type: none"> • Safety: UL certified to IEC/EA/UL/CSA - 61010-1 2nd Edition CSA-C22.2 No. 61010-1-04 • Emissions (EMC): FCC Part 15 Class B, ICES-003, IEC6100-4-5 • Surge power/telephone lines: ANSI TIA968-A: 2002 • Accuracy & Billing: ANSI C12.20 0.5 Class • BACnet Testing Laboratories (BTL): Product listing – BTLBACnet Smart Actuator (B-SA) 	
Reporting Capabilities	<p>Data-logging and Format</p> <ul style="list-style-type: none"> • Interval config (1 to 60 min) • Data storage (up to 2.4 years) • CSV/TR3 file (via FTP push) <p>AMR Functionality</p> <ul style="list-style-type: none"> • Triacta Cloud AMR • Scheduled push reporting (FTP) • Config report schedule (hr, day) • Data polling (Modbus, BACnet) • Real-time data viewing (e.g. HTTP) • On-Board Display: Liquid Crystal with button scroll • Pulse Inputs: two pulse in terminal blocks (2 wire) compatible with dry form A and solid state form A contacts • On-Board Memory: Non-volatile flash memory is unaffected by power outages; holds up to 2.4 years of meter data (1 hour intervals) for 20 years • On-Board real-time clock with battery back-up (holds time up to 10 years) 	

Triacta Cloud

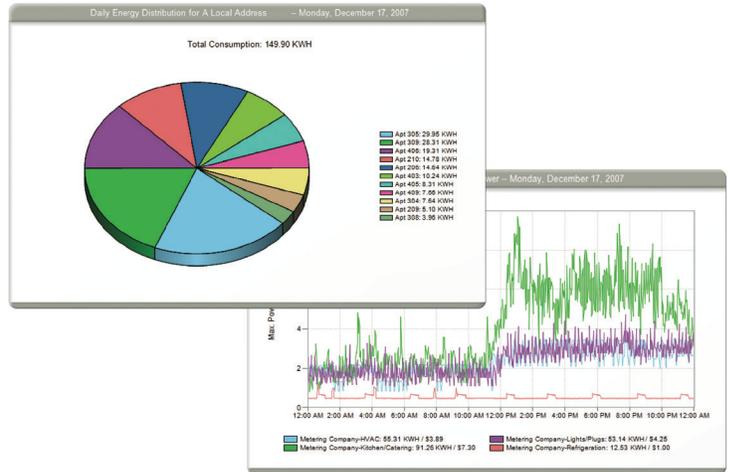
Every Triacta meter ships with meter and resource management software – everything needed to create and manage a metering infrastructure

Meter Management

Triacta meters can be programmed on-site or remotely using Triacta Cloud. Configuration and management is simple and straight-forward. On-site programming can be performed from a PC-based configuration tool. Alternatively, connecting a meter to the Internet can automatically download a pre-programmed meter configuration – streamlining meter deployment and reducing installation time dramatically. Once configured, an extensive set of meter management tools allow operators to monitor meter operation to ensure the integrity of energy information.

Resource Management

Triacta Cloud is a complete Metered Resource Management System (energy, water, gas, and monetizable derivatives such as greenhouse gases) that combines automated data collection, powerful analysis tools, and flexible data export capabilities with cloud-based software delivery. Triacta Cloud delivers stakeholders as much or as little information as they need, at the office or remotely – 24/7.



Software as a Service

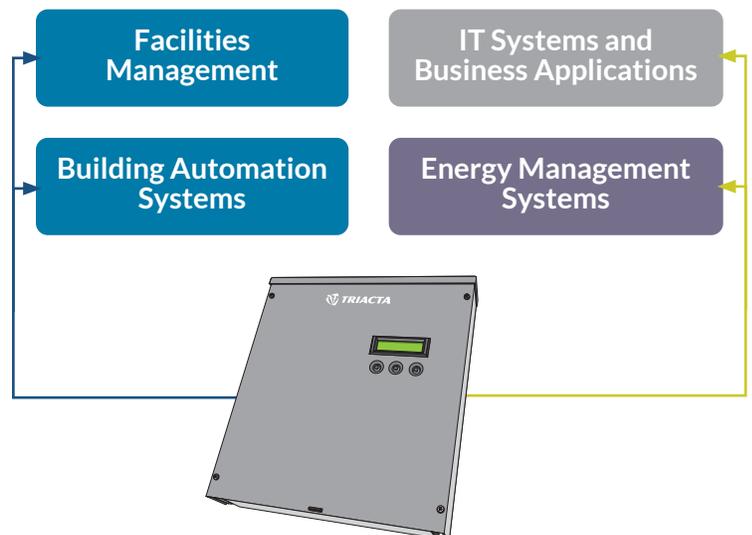
Most multi-tenant metering systems are managed through onsite meter management systems, proprietary gateways, or dedicated server-based applications. Installing these systems presents obstacles to provisioning, accessibility, flexibility, and management. With Triacta Cloud Software as a Service (SaaS), there are no distracting set-up issues or deployment costs, no software licensing fees, and there's no hardware to buy.

Transform Properties into Intelligent Buildings

The 4000 series meter transforms properties into Intelligent Buildings – bridging the energy information gap by making data visible to all stakeholders via building automation, financial, and energy management systems. It accomplishes this by communicating concurrently with building automation systems over building automation protocols, and with IT systems over IP. With Triacta meters in place, data that was once only available within facilities management is now also accessible to anyone with the need to know via IP systems and IT.

The PowerHawk® 4000 series meter transmits data over MODBUS TCP, MODBUS RTU over RS-485, and BACNet/IP connections to form the metering foundation for building automation applications. PowerHawk® 4000 meters also incorporate Triacta's advanced IP Push communications technology for communicating metrology and status information to remote servers.

Bridging the Energy Information Gap: Triacta meters seamlessly integrate Building Automation Systems, IT Systems, Business Applications, and Energy Management Systems



PowerHawk® 4000 Series Part Matrix

For information related to retail and tiered distributor pricing, please contact your Triacta sales representative.

6 Elements (CTs)

	PowerHawk 4106/120-60	PowerHawk 4106/240-60	PowerHawk 4106/230-50	PowerHawk 4106/277-60
Control Voltage	120V / 60Hz	240V / 60Hz	230V / 50Hz	277V / 60Hz
CT Type	100mA			
Accuracy	+/- 0.5%			

	PowerHawk 4206/120-60	PowerHawk 4206/240-60	PowerHawk 4206/230-60	PowerHawk 4206/277-60
Control Voltage	120V / 60Hz	240V / 60Hz	230V / 50Hz	277V / 60Hz
CT Type	333mV			
Accuracy	+/- 0.5%			

	PowerHawk 4306/120-60	PowerHawk 4306/240-60	PowerHawk 4306/230-50	PowerHawk 4306/277-60
Control Voltage	120V / 60Hz	240V / 60Hz	230V / 50Hz	277V / 60Hz
CT Type	80mA			
Accuracy	+/- 0.5%			

Notes
BACnet® IP, MODBUS® TCP, MODBUS-RTU over RS-485
No V.90 Modem
Not Sealable
For 5A applications combine with 5A/80mA converters
All reference voltages are 100V-300V

24 Elements (CTs)

	PowerHawk 4124/120-60	PowerHawk 4124/240-60	PowerHawk 4124/230-50	PowerHawk 4124/277-60
Control Voltage	120V / 60Hz	240V / 60Hz	230V / 50Hz	277V / 60Hz
CT Type	100mA			
Accuracy	+/- 0.5%			

	PowerHawk 4224/120-60	PowerHawk 4224/240-60	PowerHawk 4206/230-60	PowerHawk 4224/277-60
Control Voltage	120V / 60Hz	240V / 60Hz	230V / 50Hz	277V / 60Hz
CT Type	333mV			
Accuracy	+/- 0.5%			

	PowerHawk 4324/120-60	PowerHawk 4324/240-60	PowerHawk 4324/230-50	PowerHawk 4324/277-60
Control Voltage	120V / 60Hz	240V / 60Hz	230V / 50Hz	277V / 60Hz
CT Type	80mA			
Accuracy	+/- 0.5%			

Notes
BACnet® IP, MODBUS® TCP, MODBUS-RTU over RS-485
No V.90 Modem
Not Sealable
For 5A applications combine with 5A/80mA converters
All reference voltages are 100V-300V

About Triacta

Triacta Power Solutions designs and manufactures high-end, revenue grade meters and data acquisition devices for energy management, tenant billing, and building control applications. Every Triacta meter ships with software that combines meter management, automated data collection, powerful analysis tools and flexible billing capabilities – everything needed to create and manage a metering infrastructure.

Triacta's hardware and software make it possible to monitor hundreds of meter points within a facility in real-time. Triacta's meters can be integrated with existing building management and automation systems or used on their own to form a metering fabric for part of a building, an entire building, or a complete real estate portfolio.

Long known for its high-reliability, revenue-grade, multi-protocol sub-metering products, Triacta's meters have been deployed by sub-metering companies, property owners, building system integrators, and local distribution companies since 2003.

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Contact us for more information about Triacta's advanced sub-metering solutions.

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