

Cyberhawk® 100 and 100M Power Meter

DESCRIPTION

Cyberhawk 100 and 100M are Web-enabled power meters that monitor energy, power and power quality, providing the data needed for informed energy and power management decisions. The 100 is a single meter, while the 100M is a multiple meter unit available with 2 - 6 independent metering ports to monitor up to 6 independent single phase or 3-phase locations. Cyberhawk 100M can be expanded up to its full 6 meter configuration in the field.

FACILITATES ENERGY MANAGEMENT PROGRAMS

Knowing total energy consumption of a facility does little to assist you to implement energy reduction programs. Finding out where, how and when electricity is consumed in your building is a necessary step towards implementing effective energy management. Cyberhawk100/100M are a cost-effective means of sub-metering, assisting you to identify the savings opportunities in all areas of your facility.

Use Cyberhawk 100M to drill down to see where and when energy is being used in your facility. For example, use Cyberhawk 100M to evaluate and monitor energy use by functional systems such as lighting, HVAC, process and plug loads; or monitor electricity consumption by department or building floor. To facilitate on-going energy management programs, Cyberhawk meters incorporate integrated Web-servers to provide remote access to system data and data logs. Cyberhawk files can also be uploaded to your network or individual PC, allowing you to store unlimited historical data for future reference and analysis.

PROVIDES EXTENSIVE SYSTEM INFORMATION

Cyberhawk 100/100M:

- Measure electrical parameters including power and energy
- Monitor power quality (voltage & current THD)
- Log power/energy usage trends
- Takes pulse inputs from gas, water or utility meters



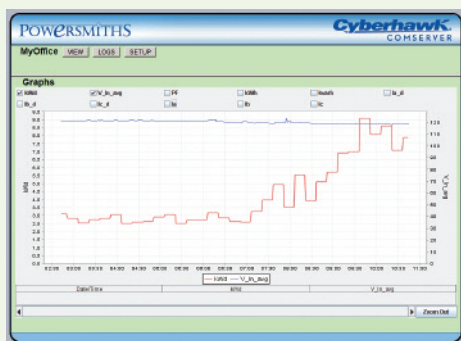
Use Cyberhawk 100/100M to measure and monitor:

- Voltage (line & phase) and Current (line & neutral)
- Power (kW, kVA, kVAR) and PF (system & phase)
- Energy (kWh, kVARh)
- Demand (kWd, kVARd, Vd, Id)
- Distortion (V & I)

APPLICATIONS

- Identify energy savings opportunities
- Manage energy savings programs and strategies
- Benchmark and trend electrical performance at the circuit level
- Remotely monitor pulse-measured utilities (gas, water, electricity)
- Validate and enhance energy savings
- Identify cost avoidance opportunities by load profiling
- Provide data for building management systems
- Support education for sustainability programs

KEY FEATURES



Easily identify power use and quality over the Internet/Intranet

- Built-in support for sustainability management and education software such as Powersmiths Windows on the World™ (WOW)
- Pre-wired for easy installation
- Provides cost-effective sub-metering to facilitate energy management
- Measures and logs power, power quality and data from pulse meters
- Accessible via web browser over Ethernet
- Standard Modbus communications

DESCRIPTION

Cyberhawk 100 and 100M are packaged and pre-wired for easy installation with compression terminal block interfaces, including fused voltage disconnects and 'Shorting' CT terminal blocks (for maintenance). CTs and CT interface boxes with shunting terminals are available separately to facilitate installation and service.

The unit is equipped with a local 3-line, backlit LCD display (one per meter port) for displaying up to 3 parameters simultaneously. Cyberhawk 100 and 100M are accessible over an Ethernet connection (Intranet) or the Internet (IP setup dependent) using only a standard Java enabled Internet Browser. It also has built-in support for building management systems using the native Modbus protocol.

Cyberhawk 100 and 100M are directly powered by the voltage sensing lines and can operate through poor power quality conditions including less than 60% of nominal voltage.

All meter setup parameters are password protected and may be set locally at the screen or remotely using the downloadable Powersmiths software installed on a PC platform.

Comes with built-in support for Powersmiths Windows on the World™ (WOW) sustainability management system that uses the building as a teaching tool.

ORDERING INFORMATION

Cyberhawk-100M - 6P - 208/120 - X

Model	Meter Ports	Voltage	Options
100	1P: 1 x 4-wire port	208/120	Listed as
100M	2P: 1 x 4-wire ports 3P: 2 x 4-wire ports 4P: 4 x 4-wire ports 5P: 4 x 4-wire ports 6P: 6 x 4-wire ports	600/480	applicable

Selection of some options may change enclosure size and weight. Consult factory for detailed product data sheet for these and other configurations. *Specific case used determined by factory unless specified.

TECHNICAL SPECIFICATIONS

SYSTEM RATINGS:

240/120 Model: 240/208/120V 50/60 Hz

600/480 Model: 600/347V 60Hz

480/400/277V 50/60Hz

Operating range: -60% to +125% of nom.

Power Burden: < 5W - 15W (Model dependent)

PORT CONFIGURATION:

Configurations: 1-phase Single/Split

3-phase D (3-wire, 2-CT)

3-phase Y (4-wire, 3-CT)

Protection: Fused disconnects Shorting CT Terminals

Accuracy: 0.5% typical (V & I), 1% Power/Energy

CT Ratio: Up to 60,000:1

PT Ratio: Up to 6,000:1

DIGITAL INPUTS:

Cyberhawk 100: 3 x inputs, 5 VDC/8mA

Cyberhawk 100M: 6 x inputs, 5 VDC/8mA

COMMUNICATION:

Ethernet: 10/100 BaseT

Protocols: TCP/IP, Modbus TCP

RS485 (alternate): 2-wire to 9.6kB, Modbus

Security: Password

HUMAN INTERFACE:

Display (HMI): 3-Line backlit LCD

Setup: Local and Remote by PC application

Restriction: Password protected; hardware lockout

DATA LOGS:

Parameters: 36 (user selectable)

Log Interval: 1 minute to 1 hour

Internal log period: 4 months typical*;
based on 12 parameters@15 min.

Additional software available for unlimited remote logging

PHYSICAL:

Cyberhawk 100: 12"H x 12"W x 6"D; 18 lbs

Cyberhawk 100M: 24"H x 16"W x 8"D; 56 lbs

Mounting: Wall (bracket included)

Enclosure: NEMA 1

Temperature: 0 °C to + 40 °C

CERTIFICATIONS:

Safety: UL916/UL61010C-1

Certification: USTC/QPS (US/Canada)

WARRANTY:

5 year limited warranty



Technical specifications subject to change without notice.

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