



Hawk-i²: Rack Monitoring Unit

Hawk-i² is a web-based environmental monitoring and management device allowing users to monitor the micro-environment of the rack enclosure or small computer rooms with a single device.

The Hawk-i² unit answers the remote monitoring demands of data centre managers with a focus on security, ease of use and increased monitoring support. Power, security, temperature and humidity are monitored round-the-clock and alarms and appropriate actions can be taken if a user-configured threshold is crossed.



Key Features

- **Network communication via SNMP**
Unified, enterprise-wide view and access, via a single IP address, to all the attached devices, providing significant cost savings over other IP-based monitoring offerings. Alarms raised if user-configured thresholds crossed.
- **Secure web management and control interface (https)**
Access for configuration, monitoring and control is made easy and secure with a web based interface. Its intuitive design completely eliminates the need for complex serial set-up processes.
- **Auto detection on supported sensors**
- **12x ports for sensors**
Combination of temperature / humidity / open, close contacts.
- **6x ports for intelligent power strips (PDUs)**
Use intelligent, switchable power strips to provide a complete and powerful remote power management and monitoring system.
- **4x digital outputs**
Control fans, door contacts etc.
- **2x key pad input and door control**
- **Optional remote LCD display unit**
Enables easy on-site monitoring of the key parameters, and displays network configuration, sited up to 1.5m away from base unit.
- **Boolean Logic Control**
- **Modular nature permits future expansion**
- **1U height**



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Technical Information

Operating Data: Power Supply

Input Power	100~240 VAC
Input Connector	IEC Inlet C14
Power Consumption	(Max) 45W
Additional information	Isolated Supply and Chassis Ground
Power supply options	48V VDC Power Input Dual Power supply

Operating Environment

Operating Temperature	0°C to 45°C -15°C to 50°C (Optional Extended Range)
Storage Temperature	-10°C to 70°C -40°C to 70°C (Optional Extended Range)
Operating Humidity	15% to 85% RH
Storage Humidity	5% to 90% RH
MTBF	> 100,000 Hrs

Features

Connectivity and Networking

Network connection	Fast Ethernet (802.3u)
Network connection	RJ45
Link speeds	10/100 Mbps with auto negotiation
Network indications	Network Link LED (Green), 10/100 Mbps LED (Yellow)

Sensors

Number of inputs	12
Input Connector	RJ11-6/4
Parameters monitored	Temperature, Humidity, Open/Close contacts
Temperature Monitoring Range	0°C to 60°C
Temperature Monitoring Accuracy	± 5% Standard Transducer @ 20°C
Temperature Hysteresis	Programmable 0.1°C to 9.9°C in 0.1 increments
Humidity Monitoring Range	30% to 90% Relative Humidity
Humidity Monitoring Accuracy	± 5% RH @ 25°C
Humidity Hysteresis	Programmable 0.1%RH to 9.9%RH in 0.1 increments
Analogue Resolution	12 Bit A/D
Additional information:	Inputs are not isolated Auto detection of supported Sinetica sensors



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PDU Monitoring and Control

Number of inputs	6
PDU Input Connector	RJ11-6/6
Parameters monitored	Voltage, Current, kilo-watt hours (kWh), kilo volt-ampere (kVA)
Voltage Monitoring Range	0 V to 500 V
Voltage Monitoring Accuracy	± 2%
Current Monitoring Range	0 A to 65 A
Current Monitoring Accuracy	± 2%
Kilo-watt hours Monitoring Range	0 kWh to 429496729 kWh
Kilo-watt hours Monitoring Accuracy	Dependent on PDU
Kilo volt-ampere Monitoring Range	0 kWh to 429496729 kWh
Kilo volt-ampere Monitoring Accuracy	N/A

Output Relays

Number of outputs	4
Output Connectors	Screw lock WeidMuller (Outputs 1 and 2), Screw lock Phoenix Contact (Output 3 and 4)
Output Modes	Normally Open, Normally Closed
Maximum Switching	48 V at 1 A (Resistive load)
Additional information:	Outputs 1 and 2 offer a 12+ V DC supply fused at 1 amp.

Monitoring and Configuration

Monitoring and configuration methods	Web management interface via HTTP or HTTPS (Secure) SNMP
(Optional) LCD Status Monitor display	Summary page displaying configured PDUs and Inputs 1 and 2. All 12 Digital Inputs All 6 PDUs
Available system information	Firmware Version IP Address Subnet Mask Gateway MAC Address
Additional information	Backlit Powered from unit (no additional power source required)

Status indicators

LED indications on front panel	Power (Green) Status (Green) Network Link (Green) Network Speed (Yellow) Digital Output (Red) Analogue Input (Red) Digital Input (Red)
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