

Driving Integration

Hawk-i³

Rack Monitoring Unit

Web & HTML Based Environmental Monitoring & Control Unit

The primary aim of the Hawk-i³ product is to produce a cost effective monitoring and control solution for power, environmental and physical access control parameters using a single IP address, to allow users to monitor and control external devices via a network attached unit.

The Hawk-i³ is a network attached device, which may be controlled and monitored over a TCP/IP, 10/100Mbps Ethernet network through SNMP, HTTP, HTTPS, and is capable of monitoring sensors and controlling power strip outlets and output relays, allowing other network attached devices to interrogate and send commands to the Hawk-i³.

To achieve flexibility with a focus on security, ease of use and increased monitoring support, the Hawk-i³ supports a maximum of four monitor and control power strips, supporting both RS232 and RS485 serial port communication protocols, which will monitor Volts, Amps, kVA, kWh, Power Factor and Frequency from the power strip. Furthermore, the Hawk-i³ also supports two serial keypads, or smart card readers, to control access to the cabinets via solenoid or motorised activated door locks, one external LCD display unit and six sensor inputs, which may be any combination of temperature, humidity, voltage free contact sensor and 0-10VDC analogue input voltage.

The Hawk-i³ also supports an intuitive web based graphical user interface, eliminating the need for complex serial setup processes. The web server within the unit supports HTTP/HTTPS network protocols, allowing the user to securely configure, monitor and control the Hawk-i³ via a username and password access control system.

Features

- SNMP agent specifically aimed and optimised for rack management, where all I/O and control functions may be monitored and controlled through the SNMP protocol.
- Ideal for per cabinet or per two cabinet installations.
- Supports up to 4 intelligent power strip or CL-Amp channels, 6 input channels, 2 output channels and 2 access control channels.
- Supplied as 1U, 19" rack mountable unit.
- Designed to conform to the relevant CE and UL, FCC certification standards.



Driving Integration

Power Supply	
Input Power	100~240 VAC
Input Connector	IEC C14 Inlet
Power Consumption	(Max) 40W
Additional Information	Isolated Supply and Chassis Ground
Power Supply Options	48V VDC Power Input
Internal PSU	Single

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 Type	Fast Ethernet (802.3u)
Network Connection	RJ45
Link Speeds	10/100 Mbps with auto negotiation
Network Indications	Connection LED (Green), Network Speed LED (Yellow)
Sensors	
Number of Inputs	6
Input Connector	8 way RJ45
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 Range	± 5% RH @ 25°C
Humidity Hysteresis	Programmable 0.1%RH to 9.9% in 0.1 increments RH Analogue Resolution 12 Bit A/D
Analogue Resolution	12 Bit A/D
Additional Information	Inputs are not isolated. Auto detection of supported Sinetica sensors

Number of Inputs	4
PDU Input Connector	RJ45
Parameters Monitored	Volts, Amps, total kVA, total kWh, total Power Factor and Frequency
Voltage Monitoring Range	0 V to 500 V
Voltage Monitoring Accuracy	± 2%
Current Monitoring Range	0 A to 65 A
Current Monitoring Accuracy	± 2%
kWh Monitoring Range	0 kWh to 429496729 kWh
kWh Monitoring Accuracy	Dependent on PDU
kVA Monitoring Range	0 kWh to 429496729 kVA
kVA Monitoring Accuracy:	N/A
Output Relays	
Number of outputs	2
Output Connectors	WeidMuller
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 lamp
Monitoring and Configuration	
The following monitoring and configuration methods are provided	Web management interface via HTTP or HTTPS (Secure) SNMP
LCD Status Monitor	
The optional backlit LCD status monitor can display the following:	Summary page displaying configured PDUs and Inputs 1 and 2. All 6 Digital Inputs All 4 PDUs
The following system information is also available:	Firmware Version IP Address Subnet Mask Gateway MAC Address
Additional information	Backlit Powered from unit (no additional power source required)
Status Indicators	
Units front panel provides the following LED indications	Power On (Blue) Feed-A (Yellow) Feed-B (Yellow) Status CPU (Green) Status Alarm (Red) Network Link (Green) Network Speed (Yellow)