

Driving Integration



Eagle-i

Local & Remote Power Monitoring & Control



The Eagle-i is the revolutionary development we have all been waiting for and is the latest addition to the Sinetica brand of power monitoring and control products. A network attached device, the Eagle-i is designed to provide room or multi rack level power, environmental monitoring and physical access control, using a single IP address.

The major exciting development to this product is the ability to extend the functionality of the base unit by adding external expansion devices, enabling an additional increase in the supported number of sensor inputs, power monitoring inputs and controlled relay outputs, allowing greater flexibility.

The Eagle-i supports the following external expansion hubs:

1. A Power Monitoring Hub. This is a 1U non networked device, which allows for port expansion without consuming further network ports. This device supports up to 18 Sinetica power devices, including our intelligent power strips, CL-Amps, In-Line Units or Multi-device Hubs. When used with the Eagle-i base unit, a total of up to 24 power monitoring devices can be connected.
2. A Multi-device Hub. This is a 1U non networked device, which allows for port expansion without consuming further network ports. This allows connection of up to 2 Sinetica power monitoring devices, including our intelligent power strips, CL-Amps or In-Line Units, 3 environmental and security monitoring sensors, full control of two electronic door handles, support for two keypads or proximity readers and support for the external LCD display.

When an Eagle-i and the above expansion hubs are used together, up to 12 dual fed cabinets can be fully monitored and controlled from a single IP address.

Features

- Supplied as 19" rack mountable unit, housed in a 1U metal case.
- Dual mains feed with dual built in power supplies.
- Built in support for:
 - Six power strips, monitoring Amps, Volts, kVA, kWh, Power Factor and Frequency
 - Twelve input sensor channels; namely temperature, humidity, voltage free contact and 0-10VDC analogue input.
 - Two Sinetica serial keypads / smart card readers or two external expansion units
 - Two normally open / normally closed relay contacts with a 240VAC voltage switching contact rating.
 - Two normally open / normally closed relay contacts with a low voltage switching 50VDC/AC contact rating.
 - One 12VDC Output @ 500mA power supply for solenoid door lock activation.
 - Alarms can be used to trigger SNMP traps, E-mail messages, or SYSLOG events.
- The overall system is controlled and monitored over a TCP/IP 10/100Mbps Ethernet network with network access provided through SNMP, HTTP, HTTPS and Telnet.

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Technical Specification

Operating Data

Power Supply	
Input Power	100~240 VAC
Input Connector	2 x IEC C14 Inlet
Power Consumption	(Max) 40W
Additional Information	Isolated Supply and Chassis Ground
Power Supply Options	48V VDC Power Input
Internal PSU	Dual

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	12
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

PDU Monitoring & Control

Number of Inputs	6
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	4
Output Connectors	WeidMuller (Outputs 1&2), Screw lock Phoenix Contact (Outputs 3&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 1amp
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)