BLACK BOX®
NETWORK SERVICES

ServGuard

Key Features

▶ 5 internal sensors measure temperature, humidity, air flow, light and sound levels.

▶ Supports up to 16 additional remote sensors.

▶ 1U-high, 19-inch rack or bracket mountable device.

▶ Built-in web server.

▶ Supports HTTP, Telnet, SMTP, SNMP.

Description

ServGuard is a standalone environmental control device ideal for monitoring cabinets, racks and server rooms. It contains five built-in sensors, accommodates up to 3 independent magnetic door sensors and up to 16 external sensors. The external sensors can be added while the unit is in operations, and no switches or hardware adjustments are necessary (plug and play). All sensors can have high and low alarm points set. Alarming functions are available via SMTP email and paging. Multiple addresses and alarm threshold levels can be set.

The internal processing unit collects the data and compiles the information into web pages, but it can send it also over Telnet or SNMP. When viewed through the web format, a variety of graphs are also available. Additionally, the data can be exported in XML or Microsoft Excel format.

The SNMP data allows dozens of network monitoring systems like HP OpenView, IP Sentry, MRTG or WhatsUp Gold to integrate ServGuard into the list of monitored devices. The supplied MIB automatically expands as remote devices are added, making integration straightforward.

The remote sensor 1-wire serial bus uses Cat3 cable or even telephone wire with RJ11 connectors and supports lengths of up to 300m. All remote sensors are powered from the main unit and they can be added or removed without reconfiguration or turning off the main unit.

The unit can be mounted in a 19 inch rack, on a solid surface (wall) horizontal or vertical, or simply laid on a desk by using the appropriate mounting accessories.

What's included:

- (1) ServGuard
- Installation instructions

Specifications

Main unit

Connections
(1) RJ45 female Ethernet
   10/100Mbps HDX/FDX
   autosense
(1) RJ11 female 1-Wire Comm Bus
   port for external sensors
(1) Terminal block for I/O (door)
   sensors (up to 3 sensors inde-
   pendent sensors, series wiring
   for 4 sensors or more)

Engine
No of internal sensors: 5

Type of internal sensors:
temperature, humidity, light level,
sound level, air flow

Specifications
Internal sensors:
- temperature:
   range: -10-°C to +80°C
   accuracy: ±0.5 degrees

- humidity:
   range: 0 – 100%, non-condensing
   accuracy: ±5%

- light:
   range: 0 – 100 lux
   accuracy: ±5%
- air flow
   range: 0 – 150cfm
- sound level:
   range: 0 – 200dBm
   accuracy: ±10%

I/O contacts (door sensors):
- range: 0 – 5VDC
- configurable as outputs
   0/5VDC via software

Reading refresh rate:
every 2 minutes

Supported hardware:
IBM PC compatible

Management
Indicators:
(1) Power, (1) Link, (1) Idle, (1)
Remote sensor access, (1) Remote
sensor data
Configuration:
via supplied setup tool

Data reading:
Telnet, HTTP, SNMP, Console soft-
ware for monitoring multiple units

Alerts:
via email (SMTP) or SNMP
Data export formats: XML, Excel

Physical/environmental
Dimensions:
(W x H x D): 216 x 58 x 31mm

Operating temperature range:
-25 to 60°C

External sensors:

Temperature:
- connections:
   cable length: 6m or 30m
   (1) RJ11 male connector

- engine:
   range: -10-°C to +85°C
   accuracy: ±0.5 degrees

Temperature / Air flow:
- connections:

cable length: 3.5m
   (1) RJ11 male connector

- engine:
   temperature – same as above
   air flow:
   range: 0 – 150cfm
   accuracy: ±25%

Water:
- connections:
   cable length: 6m
   (1) RJ11 male connector

- engine:
   range: 0 – 100% non condensing
   accuracy: ±30%

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