BLACK BOX®

NETWORK SERVICES

ServGuard Lite

Key Features

▶ 4 internal sensors measure temperature, humidity, airflow and light

▶ Connects directly to a DB9 RS232/V.34 serial port on a host PC

▶ The supplied software delivers real-time data and graphs via web (HTTP)

▶ Supports external temperature sensors, electrical power monitor and optional USB WebCam (connected to the host PC)

▶ No external power required

The ServGuard Lite acts as a weather station and warns about dangerous changes in the environment – ideal for server rooms or remote monitoring of a host system. The optional door sensor warns about room access, and an external optional USB WebCam (connected directly to the host system) can be configured to take a snapshot at a fixed interval and display it in the web application.

The small unit (about the size of two matchboxes placed end-to-end) needs no external power, as it is directly connected to the serial port of the host. Alternately, it can be located up to 4.5m away by use of a serial port extender cable (see ordering information for options).

External temperature, electrical power and magnetic door position sensors can be connected via a 1-wire bi-directional communication bus.

The supplied software which runs on Windows NT*/2000/XP and Linux delivers real-time data that can be viewed via a web page, Telnet or downloaded into Excel spreadsheets. Real time data is available also in XML format via HTTP, providing a straightforward way to integrate environmental data into external applications. The Excel remote logger is a simple example of XML integration.

When viewed through the web browser, a variety of graphs are also available. Alarming functions via email and paging are available and threshold easily set. SNMP is supported, too, via a WebSNMP extension, making it available to SNMP-aware monitoring tools such as WhatsUp Gold, MRTG and IPSentry. Examples, instructions and MIB files are provided for the most common tools.

What's included:

- (1) ServGuard Lite
- (1) Installation CD

Specifications

Main unit:

Connections
(1) RS232/V.34 DB9F host interface
(1) 1-Wire Comm Bus RJ11 port for external sensors
(1) Terminal block for door sensors (up to 3 sensors independent sensors, series wiring for 4 sensors or more)

Engine
No of internal sensors: 4
No of internal I/O contacts: 3
Type of internal sensors: temperature, humidity, light level, air flow
Specifications

Internal sensors:
- temperature: range: -10-°C to +85°C, accuracy: ±0.5 degrees
- humidity: range: 0 – 100%, non-condensing, accuracy: ±5% for 0-60RH, ±8% at 90%RH typical

- light: range: 0 – 100 lux, accuracy: ±5%
- air flow: range: 0 – 100cfm, accuracy: N/A
- 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:
(2) LED green,
controlled via software
Configuration:
via supplied management software
Data reading via supplied management software, serial (Terminal emulation), Telnet, HTTP, SNMP
Alerts: via email (SMTP) or SNMP

Data export formats:
XML, Excel
System requirements (software):
- operating system: Windows NT/2000/XP (run as service), Windows 98 (run as application)
- memory: 40MB disk space, 30MB RAM (varies with application)
- CPU: Pentium® 3 or better

Physical/environmental
Dimensions:
Operating temperature range:
Operating humidity range:

External sensors:
Temperature:
- connections:
  cable length: 3.5m
  (1) RJ11 male connector
- engine:
  range: -10-°C to +85°C
  accuracy: ±0.5 degrees

- mounting: (4) mounting clips, double sided tape
- engine:
  type: magnetic transducer

Ordering information

ITEM	CODE
ServGuard Lite	EMS050
Temperature sensor, external	EMS0T1-012
WebCam, external, USB	EMS0C1-001
Door sensor, external, magnetic	EMS0D1-030

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