

## SensorHub Pro

The SensorHub Pro gives you the ability to network and web enable two serial legacy devices and monitor your environment, with one small network appliance. The SensorHub Pro is very easy to configure and you can have it operational in minutes. With its internal web server, the SensorHub Pro requires no software and is platform independent.

### Alerts- E-mail, Paging, SNMP Traps

The SensorHub Pro can e-mail you, page you, or use its internal modem to dial out with critical alerts and warnings. You can send SNMP traps to up to ten different locations.

### Modem Access

The SensorHub Pro gives you the remote capability of dialing into your device. Using Telnet you can access the SensorHub Pro from anywhere in the world. The modem also gives the SensorHub Pro the added flexibility of dial out alerting and reporting.

### Trending, Graphing, Reporting

The SensorHub Pro has on-board graphing capability and we include our MIB so you can use SNMP to poll for thresholds and limits. For additional analysis, our optional Overtime software can help build databases, create custom graphs, and export data in CSV.

### Temperature and Humidity

The SensorHub Pro includes a temperature and humidity sensor. There are four additional external sensor ports.



### Serial Capabilities 2 Ports

#### Console Access:

The SensorHub Pro saves valuable cabinet and server room space and provides convenient access to the console ports on the machines that it serves.

#### Network-Enabler:

A legacy serial device can be network-enabled by connecting its RS-232 port to the SensorHub Pro. A host (such as a PC) connects to the SensorHub Pro through the network with Telnet or with a raw TCP connection. The serial device can now be monitored and/or controlled from the host. Any data entered at the host is sent to the serial device and any data from the serial device is sent to the host.

#### Proxy SNMP Agent:

The SensorHub Pro can be programmed to parse input data from a serial device and to form it into a user-defined SNMP Management Information Base (MIB). The SensorHub Pro can then be queried by one or more network management stations (such as HP OpenView) to retrieve the data. The SensorHub Pro can also send SNMP traps to alert users of abnormal operating conditions.

#### Serial-Line Extender:

A SensorHub Pro can make a network connection to another SensorHub Pro to act as a serial-line extender.

#### LAN-to-LAN Connector:

Two SensorHub Pro can be connected via their RS-232 ports to serve as a link between two separate LANs.

### Features:

- Requires no software
- Four user defined threshold settings
- On board graphing capability
- Sends e-mail notifications
- Sends SNMP traps to 10 destinations
- Supports SNMP polling
- Supports DHCP
- 2 levels of password protection
- Internal web server
- 0U and 1U rack mountable
- Fully compliant with all operating systems
- Includes easy to read documentation and helpful utilities
- Free trial version of OverTime
- MIB integrates with all popular NMS
- 1 year limited warranty
- Free technical support via e-mail

### Software:

#### Network Protocols ARP: RFC 826

DHCP: RFCs 2131, 2132  
DNS: RFCs 1034, 1035  
ICMP: RFC 792  
IP: RFC 791  
PPP: RFCs 1332, 1661, 1662  
RARP: RFC 903  
RIP: RFC 1058  
SLIP: RFC 1055  
TCP: RFC 793  
UDP: RFC 768

#### Network Management

SNMP/MIB-II: RFCs 1155, 1157, 1213

#### Terminal/Printer Applications

LPD: RFC 1179  
Rlogin: RFC 1282  
TELNET: RFCs 854-861, 1079, 1091, 1372

### Sensor Capabilities 4 Ports

#### External Sensor Ports

The SensorHub Pro's four external sensor ports allow you to add any of the following optional sensors:

- **Temperature sensor** with up to 60 ft of cable  
Temperature Range from -55C to 100C. Accurate to 0.5C.
- **Humidity sensor** with up to 60 ft of cable  
Capacitive semiconductor technology means precision and it never needs recalibration. 0 to 100%. Accurate to 3%.
- **Water sensor**  
Patented technology can even detect distilled water.
- **Voltage sensor**  
Detect presence of AC voltage.
- **Airflow detector**  
Accurate to 25fpm.
- **Dry Contact switch\***

\*The external sensor port supports most two-wire, on/off, or open/closed type sensors.

### Hardware:

**Processor:** 68HC000

**Ethernet Coprocessor:** SMC91C96

**Memory RAM:** 128 KB with 2 KB NVRAM  
EPROM: 256 KB

**LED Status Indicators:** Power, Link Integrity, and Network Ability

**Network Interface RJ-45 10BASE-T connector** IEEE 802.3/ Ethernet compliant

**Terminal Interfaces: (2) RS-232C, RJ-45 connector; accepts 4-, 6-, 8-pin plugs.**  
50 to 115,200 bps  
Full Modem Control  
Hardware and software flow control

**3 Sensor Ports, RJ-45 connectors**

#### Physical Characteristics

Height: 1.75 inches  
Width: 19 inches  
Depth: 4.75 inches  
Weight: 16 ounces

#### External Power Supply Style

Wall-mount  
Input: 120 VAC, 60 Hz (or per country)  
Output: 9VDC, 500 mA, unregulated

#### Environmental Temperature

0 to 50 degrees C operating  
-10 to 70 degrees C non-operating  
Humidity: 10 to 95 percent non-condensing

**Agency Power Supply: UL listed CSA approved (or per country)**

**SH-Pro: FCC Class A, CE\***

\*All Specifications are subject to change without notice.

### Product Includes:

- Temperature Sensor
- Humidity Sensor
- AC Power Adapter
- Full SNMP MIB
- Quick Start Guide
- Documentation and Utilities

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Network and Web Enabled Technologies

# SensorHub Pro

1-1 This is the Summary View of the SHPro Online User Interface.

The screenshot shows the SHPro Summary View. The left sidebar contains the device status (SHPro Version 1.0, 192.168.0.102, 00:08:67:06:80:50) and buttons for Refresh and Log Out. The main content area is divided into two sections: Sensors and Power Strips.

Port	Type	Name	Value	Status
1	Humidity		33% RH	Normal
2				
3	Temperature	ServerRm2	73° F	Normal
4				
	Temperature		78° F	Normal
	Humidity		0% RH	Critical

  

Port	Power	Voltage	Current	Temp
1	0 Watts	117.6 VAC	0.1 Amps	26.0° C
2				

1-2 This is the Security View of the SHPro Online User Interface.

The screenshot shows the SHPro Security View. The left sidebar is identical to the Summary View. The main content area is for user management, showing a form for adding or editing a user.

User: admin | admin

Password: [ ]

Confirm Password: [ ]

Access:  Read,  Write,  Administration

Inactivity Timeout: Never

Buttons: Apply, Delete, Reset

1-3 This is the System Info View of the SHPro Online User Interface.

The screenshot shows the SHPro System Information View. The left sidebar is identical to the Summary View. The main content area displays system configuration details.

Firmware Version: 1.0  
MAC Address: 00:08:67:06:80:50

IP Address: [192][.][168][.][0][.][102]  
Subnet Mask: [255][.][255][.][255][.][0]  
Default Gateway: [192][.][168][.][0][.][1]

Domain Name Server: [192][.][168][.][0][.][1]  
Domain Name: [san.it.com]

IP Address Acquisition: [RARP and DHCP]

System Contact: [TechSupport]  
System Name: [SHPro]  
System Location: [FirstFloor]

Data Sample Rate: [1 Minute]  
Web Page Refresh Rate: [Off]

Buttons: Apply, Reset

1-4 This is the Humidity Sensor View of the SHPro Online User Interface.

The screenshot shows the SHPro Humidity Sensor View. The left sidebar is identical to the Summary View. The main content area displays sensor details and configuration options.

Description: Humidity Sensor 1  
Status: Normal  
Current Value: 75

High Critical: [120]  
High Warning: [90]  
Low Warning: [60]  
Low Critical: [40]  
Rearm: [ ]

Buttons: Apply, Reset, Graph

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