

# Sensaphone IMS-4000 Node

## Expand Your Monitoring Solution



## Product Overview

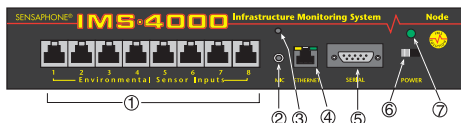
The IMS-4000 Node allows users to expand their infrastructure and monitor additional inputs in locations away from the IMS-4000 Host. Up to thirty-one Nodes can be used with each IMS-4000 Host. Much like the Host, the Node can monitor eight inputs for environmental conditions and or alarm contacts from other computer equipment such as UPS systems. The Node communicates to the Host via a RJ-45 10/100BASE-T Ethernet and is monitored via the ConsoleView Software included with the Host.

### PHYSICAL DESCRIPTION

The IMS-4000 Node is housed in a 9.6" w x 1.75" h x 7" d enclosure, which is 1 EIA rack-mount space high.

#### Front Panel Layout

The front panel contains connections for eight sensor inputs, microphone input, Ethernet port, serial port, and power LED. See figure below:



Front Panel Layout of the IMS-4000 Node

- |                                   |                |
|-----------------------------------|----------------|
| 1 Sensor Inputs                   | 5 Serial Port  |
| 2 Microphone Jack                 | 6 Power Switch |
| 3 Internal Microphone             | 7 Power LED    |
| 4 Ethernet Port<br>(10/100BASE-T) |                |

### SENSOR INPUTS

The sensor inputs are designed to interface with IMS-4000 series sensors (See Chapter 7). The use of RJ-45 jacks for sensor inputs allows the use of existing structured cabling to connect remote sensors.

### MICROPHONE

The Node unit comes with a built-in microphone. Directly below the built-in mic is a separate jack for connecting an optional condenser microphone to sense audible alarms, such as smoke detectors.

When an external microphone is connected, the internal microphone is disabled.

### RJ-45 10/100BASE-T ETHERNET PORT

This jack is for connecting to your network so that the IMS-4000 Node can communicate with the IMS-4000 Host and ping selected network servers and/or services. Two LEDs indicate Link Status (left) and Receive Data status (right).

### SERIAL PORT

The RS-232 serial port is used to configure network settings. The port is DB9 male DTE and operates at 9600 baud, no parity, and 1 stop bit. A DB9 female-female null modem cable is required to configure network settings.

### ON/OFF SWITCH

The on/off switch connects main power and battery power to the system. In the event that main power fails, the backup battery system will automatically power the system.

### REAR PANEL

The rear panel is where the main power cord exits the unit. A 120VAC/60Hz to 8VAC adapter provides main power to the unit.

### BATTERY COMPARTMENT

The battery compartment is located below the top panel. The unit requires (1) 6V 3.4AH rechargeable battery (included). To remove or replace the battery, remove the top cover with a small flat-head screwdriver. {Note: Earlier versions of the node used six (6) C-size 2000mAHr Ni-Cad batteries. These units can be identified by their black network jack or via software—they will be running firmware version 2.xx or earlier.}

# Technical Specifications

## OPERATING SPECIFICATIONS

Temperature: 32-122°F

Humidity: 5-90% RH non-condensing

Power Supply: 120VAC 60Hz

Power Consumption (Typ): 10 Watts

Dimensions: 1.8”h x 7.0”d x 9.6”w

Backup Battery: (1) 6V 3.4AH sealed rechargeable

Backup Time: 3.5 Hours

## COMMUNICATION SPECIFICATIONS

Ethernet: 10/100 Base-T, 10/100Mbps

RS-232: DB9, 9600bps, DTE

## ENVIRONMENTAL MONITORING

Internal Monitoring: AC Power, Backup Battery Level, Sound Level (in dB)

Number of Sensor Ports: 8

Sensor Types: Temperature, Humidity, Water, Power, Infrared Motion, Smoke, Dry Contacts

Sensor Input Connector: RJ-45

Sensor Cables: CAT-5, 568B

Cable Length: 1000'

External Microphone: 3.5mm jack, electret condenser

## CERTIFICATIONS

FCC Part 15 Class A

UL60950-1/CSA-C22.2 No. 60950-1-03

CE Mark