MicroGoose

Rev 1.06

Climate Monitor

Datasheet

The small size and price makes this web-enabled climate monitor great for placing in hot spots and other problem areas. With PoE support, fewer cables are needed, simplifying installation.

- Built-in temperature and humidity sensor
- Web-accessed (internal web server)
- Supports Power over Ethernet (PoE)
- Multi level alarms with escalations
- Alarm notifications sent by email and SNMP

Worried about hot spots in server cabinets or remote computer rooms? Place these small climate monitors where you need them. The MicroGoose gets power through PoE or power adapter. A built-in sensor measures temperature and humidity. The MicroGoose has web access, graphing, and alarm alerts via email or SNMP. Add an optional web camera to see what's happening in your server room.

Typical Applications

- Blade server cabinets - hot spot monitoring
- Small server rooms - detect air conditioning failures early
- Data centers - measure temperature and humidity in problem areas

Web Interface

Users primarily interact with the MicroGoose through the web interface. This allows a remote user to check the status of the environment, view graphs of logged data and see web cam images.

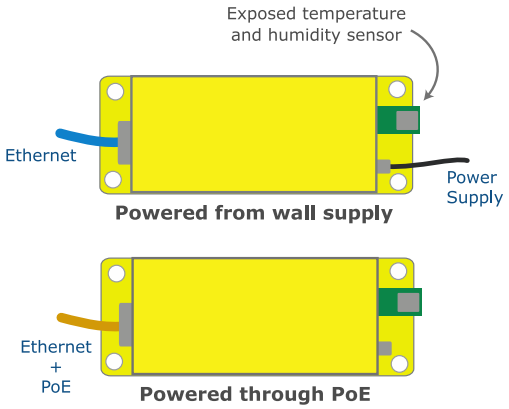
Only a web browser is required to configure and interact with the device. Access is user name and password protected. For added security, the unit supports SSL encryption, used by standard browsers during HTTPS.

The firmware running on the MicroGoose is updated through the web interface. New versions can be downloaded from the ITWatchDogs website at:

http://www.itwatchdogs.com

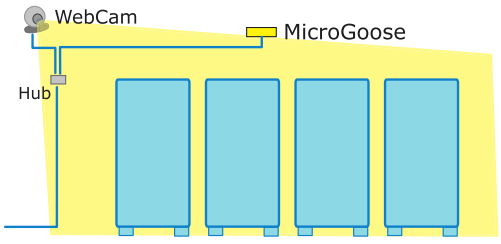
About the size of a candy bar, the MicroGoose contains a built-in temperature and humidity sensor and supports PoE.

Web-Accessed, Power over Ethernet (PoE)



A self-contained climate monitor, the MicroGoose needs only an Ethernet connection and power. In a network with PoE, both are supplied through an Ethernet cable. Otherwise the included wall power supply is used.

Server Room Monitoring



A MicroGoose and an optional webcam monitor a server room. The IT manager knows the temperature and humidity and gets an alert if something goes wrong.

Other Access Methods

Besides web access, there are several methods to access sensor data from the unit. Meta-tagged system info is available in XML. Logged data can be downloaded as a CSV file that can be viewed with spreadsheet software.

The device also supports SNMP (v1, v2c, v3). This allows dozens of Network Monitoring programs such as HP OpenView, IP Sentry, MRTG, or What's Up Gold (Ipswitch) to easily add the MicroGoose to the list of monitored devices.

Alarms

A user sets alarm thresholds (up to 200) to define sensor boundaries and indicate what to do if there is a problem. Assign multiple thresholds to a sensor for alarm escalation.

The unit continuously compares sensor readings with these thresholds. If a reading exceeds a threshold, the alarm is "tripped" and the MicroGoose alerts the appropriate recipients by email and/or SNMP. When the alarm ends, the unit sends a "cleared" notice.

Internal Board Heating

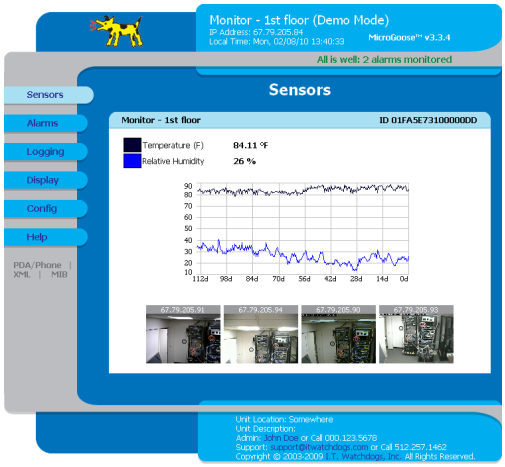
The built-in temperature sensor is calibrated when it comes from the factory. This sensor extends outside the case to minimize the effect of heat created by internal circuitry. However, depending on airflow, it may still read a few degrees above ambient. Adjusting an internal temperature offset corrects for this.

Installation & Default Settings

The MicroGoose can be screw-mounted using the 0.125" mounting holes or tie-wrapped to a cabinet rail.

Comes pre-programmed with a static IP address of 192.168.123.123. This can be changed through the web interface.

Web Interface - Sensors page



The Sensors page shows temperature, humidity and images of up to four web cams.

Web Interface - Alarms page

Configure alarms and get email / SNMP alerts.

Device Details

Built-in Sensors
Temperature: -22 to 185 °F (-30 to 85 °C), +/- 0.5 °C
Humidity: 0 to 100%, +/- 5%

Specifications
Physical: 4"L x 1.5"H x 1.5"W, 0.5 pounds
Power: via PoE or 6VDC power supply (included)
Ethernet: 10 Mbps, RJ-45 receptacle
Real Time Clock (RTC) with power backup
Reset IP push-button: restores factory defaults
Standards: FCC Part 15, 802.3fc (PoE)
Warranty: 1 year (extended warranties available)

Software Features
HTTP / HTTPS: web access
Alarms: high/low values, multiple thresholds per sensor
ESMTP / POP3: email alerts, ESMTP / POP3 auth
SNMP (v1, v2c, v3): gets, trap and clear alerts, MIB
Paging: email to pager proxy
XML: meta-tagged sensor values, alarms, config
Syslog: send debug messages to Syslog server
Web interface: 4 styles to choose from
Access-control: 3 access levels (view, control, admin)
Web cams (optional): Up to four can be displayed
Compatible with WatchDog Console Aggregator