

MicroGoose

A bare-bones version of the best-selling WeatherGoose IT climate monitor series. This small monitor fits tight budgets and spaces.

- Internal temperature and humidity sensors
- Web accessed (internal web server)
- Supports Power over Ethernet (PoE)
- Email alarms and escalations
- Simple installation, built-in brackets
- Optional video camera

Worried about hot spots in blade server cabinets or remote computer rooms? Place these tiny MicroGoose monitors where you need them. Get email and SNMP alerts with escalations. Add an optional web camera and see what's going on.

Sensors are exposed outside the unit's case to minimize heating by circuitry.

Typical Applications

The small size and low cost of the unit and the use of a web interface make the MicroGoose useful for:

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

Device Details

Internal Sensors

Temperature: -40 to 254 °F, +/- 0.5 °C

Humidity: 0% to 99%, +/- 5%

Video Camera (optional)

Up to four cameras can be displayed
D-Link DCS-910, DCS-3410, DCS-3220

Specifications

Physical: 4"L x 1.5"H x 1.5"W, 0.5 pounds

Power: 6vdc (supplied wall transformer)

Ethernet: 10 Mbps, RJ-45 receptacle

Standards: FCC Part 15, 802.3fc (PoE)

Real Time Clock (RTC) with power backup

Control

Reset push-button: restores factory settings and factory IP address (192.168.123.123)

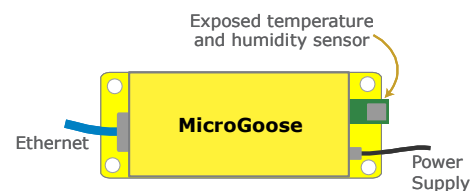
Climate Monitor

Datasheet



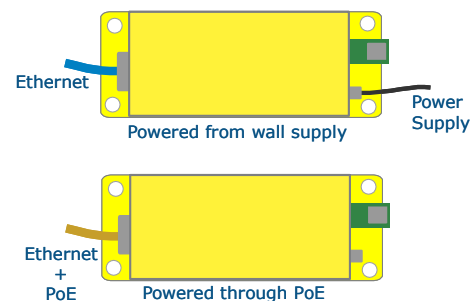
About the size of a candy bar, the MicroGoose contains a temperature & humidity sensor in a plastic case. The externally-exposed temperature & humidity sensor is shown, along with the Ethernet connection.

Web Accessed, Self-Contained



A self-contained climate monitor, the MicroGoose needs only an Ethernet connection and power. The MicroGoose contains an internal web server. No special software, other than an Internet Browser is required.

Power over Ethernet



The MicroGoose can be powered by Power over Ethernet (PoE) or with the external wall power supply, provided with the unit.

Software Features

HTTP / HTTPS: web access
 Alarms: high / low values, multiple thresholds
 ESMTP / POP3: email alerts, POP3 / ESMTP auth
 SNMP (v1, 2c): Gets, Traps and Clears, MIB
 Paging: email to pager proxy
 XML: all values exposed and meta-tagged
Console: multi unit viewing software, with log aggregation, and thumbnail camera views (optional)
 Syslog: Send debug messages to Syslog server
 Web interface: 4 styles to choose from
 Access-control: 3 access level accounts

Internal Board Heating

The electronics generate a small of amount of heat which can heat the temperature sensor. Bench tests show a typical internal heating amount of 3 °F in still air. The temperature and humidity sensors are mounted externally on a thin fiberglass board to minimize this internal heating error.

If the MicroGoose is exposed to a 25 cfm airflow, which is typical in computer rooms and cabinets, the internal heat is dispersed by the airflow which reduces the heating offset error to less than 2 °F.

The heating error is additive over a wide range. If the actual room temperature is 70 °F the MicroGoose will show 72 °F, typically. At an actual room temperature of 90 °F, the MicroGoose will indicate 92 °F. The actual amount of heating error will depend on the amount of airflow the unit is exposed to.

Installation & Default Settings

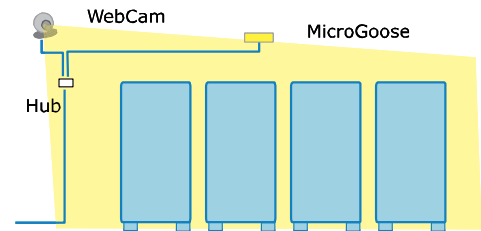
The MicroGoose can be screw mounted using the 0.125" mounting holes or tie-wrapped to a cabinet rail.

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

A button on the unit can be used to restore the device to default settings.

Model Number

MicroGoose: **WxGoos-5**



In this drawing, a MicroGoose and an optional webcam monitor a server room with four cabinets. The IT manager knows the temperature and humidity and gets an email if something goes wrong.



The simple home page shows the temperature, humidity and thumbnails of up to four video cameras. The MicroGoose is configured through the web interface.

