

WeatherGoose II



A simple, low-cost device for monitoring cabinets and racks, the WeatherGoose II contains built-in environment sensors, and ports for connecting remote external sensors.



The WeatherGoose II, a web-based device used for monitoring the environment in a server or equipment room. The device occupies a 1U space in a server rack.

- Web accessible (no software to install)
- 5 built-in sensors
- 3 analog inputs for 0-5 VDC sensors
- 5 digital sensor ports for ITW external sensors
- Multi level alarms with escalation
- Alarm notifications through email and SNMP

Each WeatherGoose II is self-contained and accessed through a built-in web server. A user only needs a standard web browser (e.g. FireFox, Internet Explorer) to view current sensor readings and graphs of previous values. The climate monitor continually compares sensor data with user-defined alarms and sends notifications if there is a problem. Supports up to 16 remote digital sensors (using splitters) and a total cable length of 600'.

Web Interface - Sensors Page

WEB INTERFACE

The web interface is the primary way to interact with the WeatherGoose II. This interface allows a user to remotely check of the status of the environment, view graphs of logged data and see web cam images.

Configuration and administration of the unit is done through the web interface. Access is user name and password protected. SSL encryption can be used for added security through the HTTPS capabilities in browsers.



Current sensor readings and graphs are displayed on the Sensors page of the web interface. Images from up to 4 webcams are also displayed.

OTHER ACCESS METHODS

Besides web access, there are a variety of methods that can also be used for obtaining sensor data from the unit, Current sensor readings are available in XML or through SNMP. Logged data can be downloaded as a CSV files.

The availability of SNMP (v1, v2c, v3) based data allows dozens of Network Monitoring programs such as HP OpenView, IP Sentry, MRTG, or What's Up Gold (Ipswitch) to easily add the WeatherGoose II to the list of monitored devices.

Web Interface - Alarms Page

Alarms are configured with the web interface on the Alarms page. Multiple thresholds and alert recipients can be chosen for each sensor.

ALARMS

Alarm thresholds are used to define the normal operating range for sensors in your environment and what actions should be taken if a sensor leaves this range.

If a threshold is crossed the unit can send email and SNMP traps to multiple recipients. A "clear" notification is sent when the sensor returns to the correct range.

REMOTE SENSORS

Analog

Analog inputs on the WeatherGoose II support any contact closure sensors and industry standard sensors that provide a 0 - 5VDC signal. Names for the input channels are configured through the web interface. Examples: Water sensor, door position, smoke alarm

Digital

Digital sensors provide sensor data through a serial protocol. When these sensors, proprietary to ITW are plugged in, the WeatherGoose II automatically detects and identifies the sensor type. These sensors can be given a "friendly" name to make them easier to identify. This information is stored on the WeatherGoose II. Examples: Temperature, Temp / Airflow, CCAT Interface

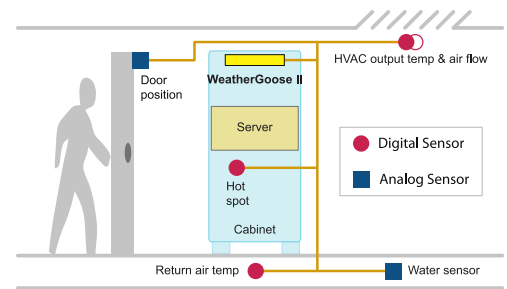
FIRMWARE

The firmware running on the WeatherGoose II is field-upgradable. New firmware releases can be downloaded from the IT Watchdogs website.

CONSOLE SOFTWARE

WeatherGoose II is compatible with WatchDog Console. This "dashboard" software is used to aggregate sensor data from several climate monitors so that it can be viewed, logged and graphed through a single interface. The software also allows a user to create an alarm threshold and apply it to multiple units. Console can simultaneously update firmware on multiple units.

Typical uses of analog and digital sensors



This server room uses a WeatherGoose II to monitor the cabinet environment plus five external sensors to monitor the A/C output, cabinet hotspots, return air temperature, water leaks and door position.

Device Details

Built-in Sensors

Temperature: -22 to 185 °F (-30 to 85 °C), +/- 0.5 °C
 Humidity: 0 to 100%, +/- 5%
 Air Flow: 0 to 99 (relative value)
 Light: Ambient light level
 Sound: Average sound level

Remote Sensor Support

Digital Sensor: 5 ports (expandable to 16 with splitters)
 Analog Sensor: 3 inputs (contact closure, 0-5 VDC)

Specifications

Physical: 19" Rack-mount, 1-U space
 Power: 6VDC (supplied wall transformer)
 Ethernet: 10 Mbps, RJ-45 receptacle
 Real Time Clock (RTC) with power backup
 Reset push-button: restores factory defaults
 Warranty: 1 Year (extended warranties available)

Software Features

HTTP / HTTPS: web access
 Alarms: high/low values, multiple thresholds per sensor
 ESMTTP / POP3: email alerts, ESMTTP / 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