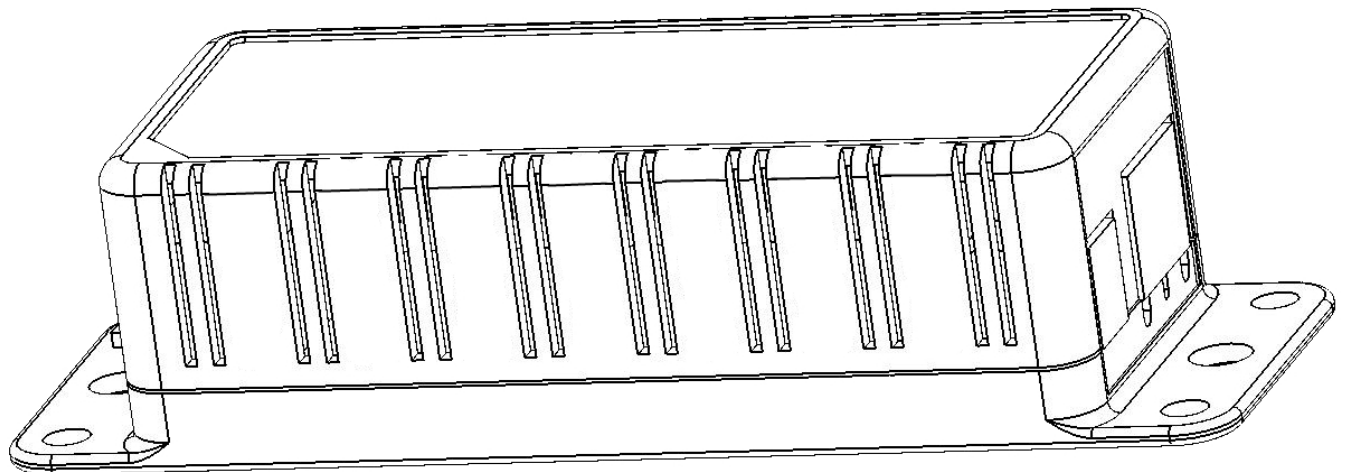




Instruction Manual
Environmental Monitoring Unit with Optional POE

GBB15 Series
Firmware Version 1



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Specifications

Overview

The GBB15 Environmental Monitoring Unit provides remote environmental monitoring and alarming capabilities needed to detect climate conditions in data centers. The GBB15 Environmental Monitoring Units are equipped with a built-in web server. Web pages, including graphs, are generated by the unit to monitor environmental conditions within the cabinet. No software other than a web browser is required for operation and several data formats are available. The GBB15 has built-in sensors to monitor Temperature, Relative Humidity and Dew Point. The GBB15 has two expansion port for the connection of up to four external sensors. The GBB15 supports the use of network cameras. The GBB15 can be optionally configured at the factory to support Power-Over-Ethernet (PoE).

Environmental

Temperature

Operating:	-25°C (-4°F) min	80°C (176°F) max
Storage:	-40°C (-40°F) min	80°C (176°F) max

Humidity

Operating:	5% min	95% max	(non-condensing)
Storage:	5% min	95% max	(non-condensing)

Elevation

Operating:	0 m (0 ft) min	2000 m (6561 ft) max
Storage:	0 m (0 ft) min	15240 m (50000 ft) max

Electrical

6-18 Volts DC, 2 Amps
Power Over Ethernet (POE) Enabled (Class 0)

Networking

Protocols

HTTP, HTTPS (SSL/TLS), SMTP/POP3, ICMP, DHCP, TCP/IP, NTP, Telnet, Syslog

Ethernet Link Speed

10/100 Mbps; full duplex

Data Formats

HTML, SNMP, CSV/Plain Text, JSON, XML

EMC Verification

This Class A device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Installation

Guidelines

- If the GBB15 is installed in a cabinet the ambient temperature of the rack should be no greater than 80°C.
- Install the GBB15 such that the amount of airflow required for safe operation of equipment is not compromised.
- Mount the GBB15 so that a hazardous condition is not achieved due to uneven mechanical loading.

Network Overview

This product comes preconfigured with a default IP address set. Simply connect to the Environmental Monitoring Unit and access the web page with your browser.

Default IP Address

GBB15 units have a default IP address for initial setup and access to the unit if the assigned address is lost or forgotten. Once an IP address is assigned to a unit, the default IP address is no longer active. To restore the default IP address, press the reset button located beside the network connector and hold for approximately 20 seconds. Both the idle and activity lights near the network connector will both light up when the IP address has been reset.

Note: Pressing the reset button will restore the default IP address and will also clear all password settings.

The Configuration page allows you to assign the network properties or use DHCP to connect to your network. Access to the unit requires the IP address to be known, so use of a Static IP or reserved DHCP is recommended. The default address is shown on the front of the unit:

- **IP Address:** 192.168.123.123
- **Subnet Mask:** 255.255.255.0
- **Gateway:** 192.168.123.1

Initial Setup

Connect the GBB15 to your computer using a crossover cable or hub/switch.

Windows XP/Vista/7/8

On your computer, go to "Start > Settings > Control Panel > Network and Dial Up Connections".

Right click on "Local Area Connection" and select "Properties".

Select "Use the following IP address". Use these settings:

- **IP Address:** 192.168.123.1
- **Subnet Mask:** 255.255.255.0
- **Gateway:** Leave blank

Click "OK" twice.

The unit should now be accessible in a web browser via the unit's permanent IP address: <http://192.168.123.123/>. See Unit Configuration (page 13) for details.

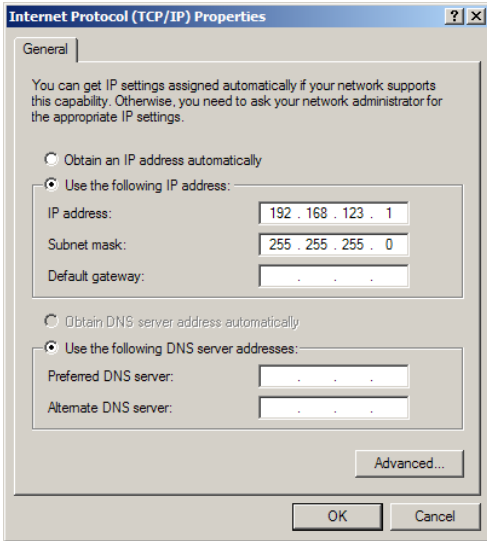


Figure 1: Network settings for initial setup on Windows XP

OS X

Open System Preferences via the Dock or the Apple menu.

Select "Network".

Select "Ethernet" from the list on the left side of the window and enter these settings on the right side of the window:

- **Configure:** Manually
- **IP Address:** 192.168.123.1
- **Subnet Mask:** 255.255.255.0
- **Router:** Leave blank

Hit "Apply" and confirm the changes.

The unit should now be accessible in a web browser via the unit's permanent IP address: <http://192.168.123.1/>. See Unit Configuration (page 13) for details.

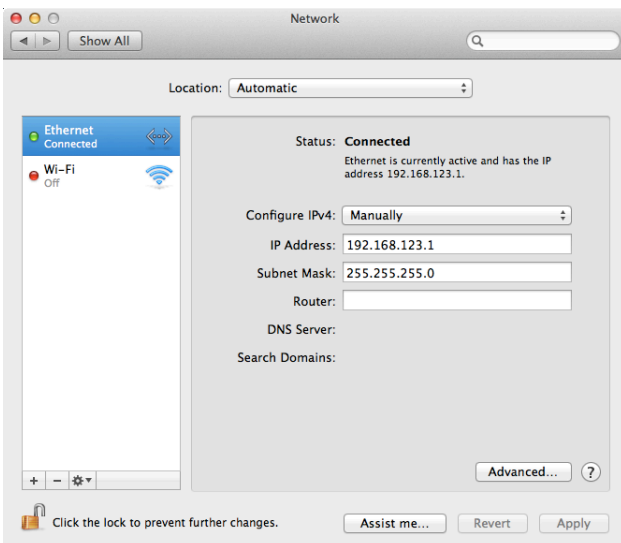


Figure 2: OS X network settings for initial setup

Web Interface

General

The unit is accessible via a standard, unencrypted HTTP connection as well as an encrypted HTTPS (SSL) connection. The following web pages are available:

Overview Page

The front page, *Overview*, gives a real time view of the unit's data. Readings for the internal temperature, humidity and dew point sensors along with all external sensors will be shown.

Optional cameras may be added and their live snapshots are shown on this page. Plug-and-play external sensors appear below the internal sensors when attached.

The menu bar allows access to the rest of the Environmental Monitoring Unit's functionality.

The screenshot displays the GEIST GBB15 web interface. At the top left is the GEIST logo. The main header shows 'GBB15' with IP Address: 192.168.123.123 and Local Time: 2000-01-13 20:02:54. On the right, it shows 'Firmware Version GBB15 v1.4.0t' and 'Alarm Status All is well: No Alarms Monitored'. A left-hand navigation menu includes 'Overview' (selected), 'Alarms', 'Display', 'Logging', 'Config', 'Help', and 'XML | MIB'. The main content area is titled 'Overview' and shows 'Friendly Name GBB15' and 'Alarm Status BB0004A374F32CC3'. Below this, a table displays sensor readings: Temperature (24.68 °C), Humidity (38%), and Dewpoint (9.40 °C). Callouts identify 'Sensors' and 'Real-Time Sensor Readings'. At the bottom left, 'Unit Location:', 'Unit Description: Environment Monitor', and 'Admin:' are listed. At the bottom right, support information is provided: 'Support: Manuals, support@geistglobal.com or Call 800.432.3219 / +1.402.474.3400 Copyright © 2003-2012 Geist All Rights Reserved.' A callout for 'Alternate Formats' points to the 'XML | MIB' link in the menu.

Figure 3: Overview Page – Internal Sensor and I/O Data

This screenshot shows the external sensor data section of the GEIST GBB15 web interface. It features a table with columns for 'Digital Sensor' and 'Digital Status'. The first entry is for sensor 'A14' with ID '100'. The 'Digital Status' is '1', and the sensor is identified as 'Off: 1, 0 Vdc / On: 99, 5 Vdc'. Callouts identify 'Real Time Sensor Readings' and 'Sensor Friendly Name'. A 'XML | MIB' link is visible on the left side of the interface.

Figure 4: Overview Page – External Sensor Data

Logging Page

The *Logging* page allows the user to access the historical data by selecting the desired sensors and time range to be graphed. Selected sensor values are logged into the data file at a rate of one point per minute. Please note that although data is logged once per minute, all sensor data used in the real time display and alarm functions is read at least once every 5 seconds for internal sensors and once every 30 seconds for external sensors. Recorded data is available for download in Comma-Separated Values (CSV) or JavaScript Object Notation (JSON) file types.

Click the "Clear Logs" button to clear the historical data stored in the device.

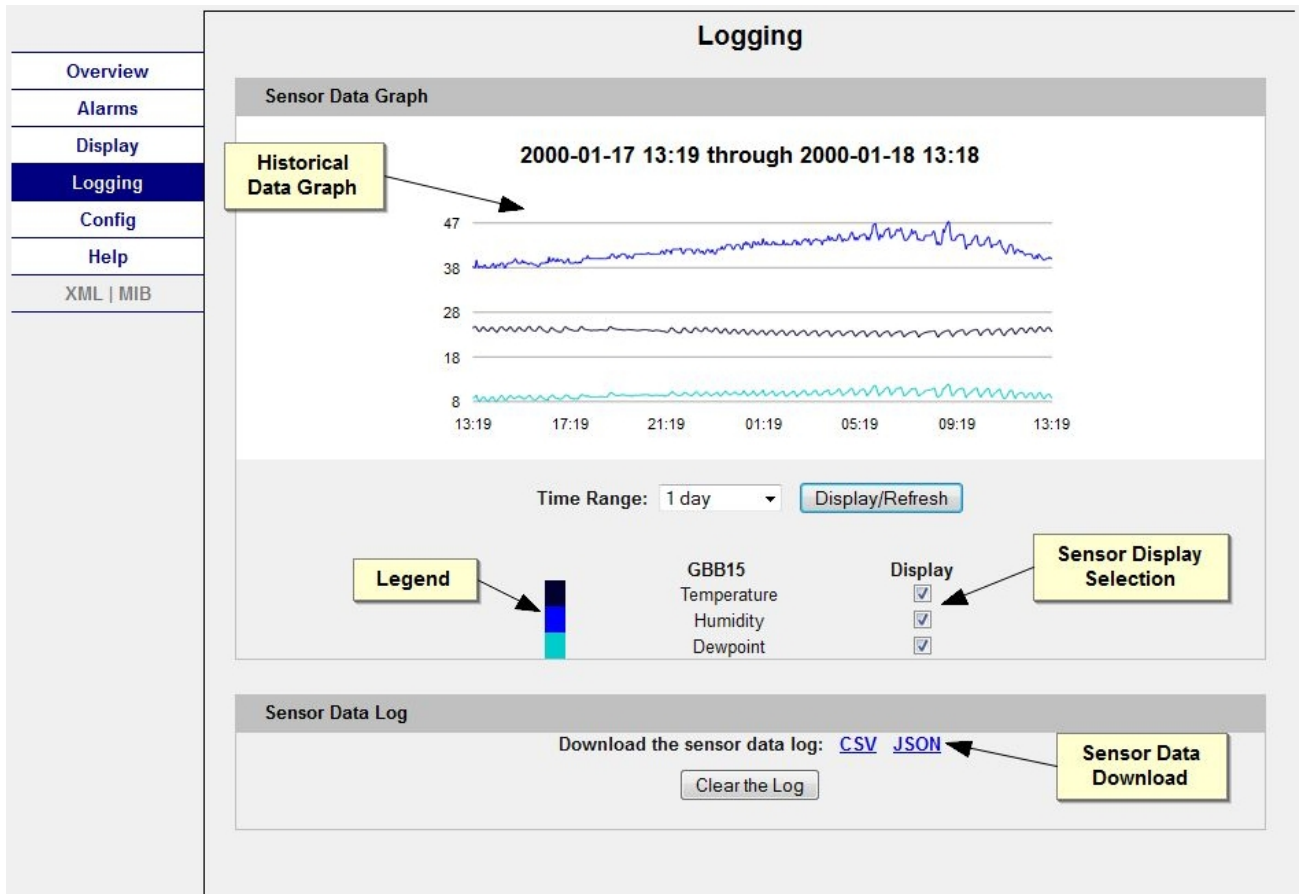


Figure 5: Logging Page

Display Page

The *Display* page allows the user to assign friendly names to internal and attached sensors as well as change the default temperature unit of measure for sensors. The display page also allows the user to select between the default and classic web page layouts. The default interface displays a vertical menu bar to the left of the main window, while the classic interface displays a horizontal menu bar across the top of the screen.

Serial Number	Device Type	Friendly Name
BB0004A374F32CC3	BB15	GBB15

Figure 6: Display Page

Alarms Page

The *Alarms* page allows the user to establish alarm conditions for each sensor reading. Alarm conditions can be established with either high or low trip thresholds. The alarms are displayed in different sections based on the sensor the alarm is associated with. Alarm options include relays, Email and SNMP Traps. See Alarms (page 18) for details.

The screenshot displays the GEIST Alarms Page for device GBB15. The page header includes the GEIST logo, device name GBB15, IP Address: 192.168.123.123, Local Time: 2000-01-13 20:10:02, and version BB15 v1.4.0t. A status bar indicates "Alarms: 2 Monitored, 1 Tripped, 0 Unplugged".

The main content area is titled "Alarm settings" and contains two alarm configuration sections:

- Top Section (TRIPPED):** Sensor Type: Temperature, Trips if Above, limit 10.00. Alarm must remain tripped for 2 (min) before notification. Repeat every: 10 (min). Includes checkboxes for (Email 3), (Email 4), (Email 5) and (Trap 1), (Trap 2).
- Bottom Section (CLEAR):** Sensor Type: Temperature, Trips if Below, limit -40.00. Alarm must remain tripped for 0 (min) before notification. Repeat every: 0 (min). Includes checkboxes for (Email 1), (Email 2), (Email 3), (Email 4), (Email 5).

Buttons for "Save Changes" and "Add New Alarm" are located at the bottom of the configuration area. A navigation menu on the left includes Overview, Alarms, Display, Logging, Config, Help, and XML | MIB. Callout boxes highlight "Alarm Status", "Sensor Type", "Threshold Type & Value", and "Alarm Options".

Figure 7: Alarms Page

Configuration Page

The *Config* page gives the user the ability to enter and update network settings, time settings, email info and multiple other settings. See Unit Configuration (page 13) for details.

The screenshot displays a web interface for configuration. On the left is a vertical navigation menu with the following items: Overview, Alarms, Display, Logging, Config (highlighted in blue), Help, and XML | MIB. The main content area is titled "Configuration" and is divided into sections. The "General" section contains two buttons: "Restore System Default Values" and "Restore Network and Account Default Values". The "Network" section displays the following settings: MAC Address: 00:04:A3:74:F3:2C; a checkbox for "Enable DHCP" which is currently unchecked; IP Address: 192.168.123.123; Subnet Mask: 255.255.255.0; Gateway: 192.168.123.1; Primary DNS: 8.8.8.8; and Secondary DNS: 8.8.4.4. A "Save Changes" button is located at the bottom of the Network section. Below the Network section, the "Time" section is partially visible.

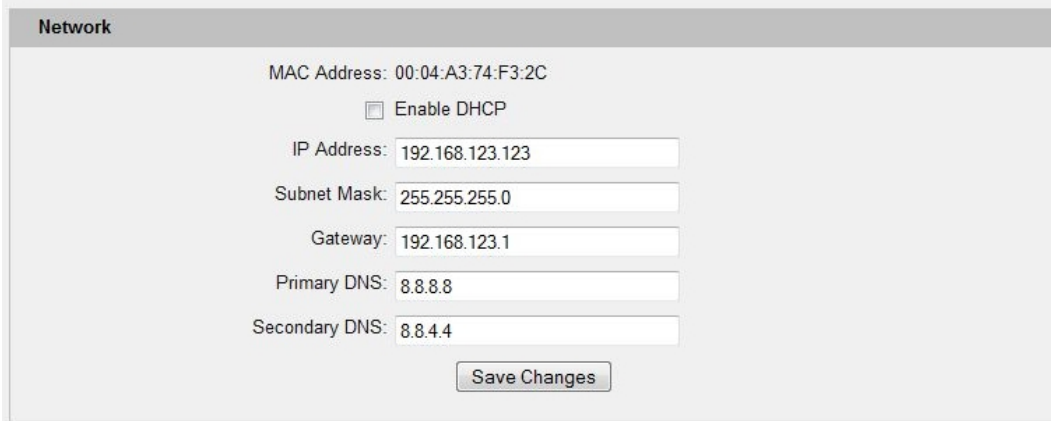
Figure 8: Configuration Page

Unit Configuration

Network

The unit's network configuration is set on the *Network* section of the *Configuration* page. Settings pertaining to the unit's network connection are:

- **DHCP:** Allows the unit to request a dynamic IP address from a server on the network.
- **IP Address/Subnet Mask/Gateway:** When not using a dynamic address, enter static network configuration information here.
- **DNS Servers:** Allows the unit to resolve host names for Email, NTP and SNMP servers as well as cameras.

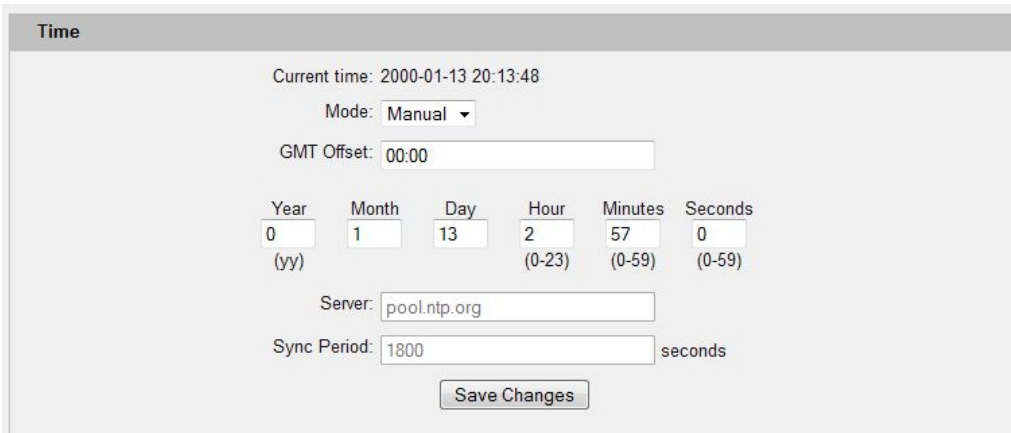


The screenshot shows the 'Network' configuration page. At the top, it displays the MAC Address as 00:04:A3:74:F3:2C. Below this is a checkbox for 'Enable DHCP' which is currently unchecked. There are five text input fields: 'IP Address' (192.168.123.123), 'Subnet Mask' (255.255.255.0), 'Gateway' (192.168.123.1), 'Primary DNS' (8.8.8.8), and 'Secondary DNS' (8.8.4.4). A 'Save Changes' button is located at the bottom of the form.

Figure 9: Network Configuration Section

Time and Date

The system clock is set on the *Admin* section of the *Configuration* page. The unit comes preconfigured with the IP addresses of two NIST time servers and is set to the Central Time Zone (-0500 GMT). Should a local time server be preferred, enter its IP address into the "Server" box and click the "Save Changes" button. Clearing the time server addresses and clicking "Save Changes" will set the time servers back to the defaults. The unit attempts to contact the time servers during boot up and periodically while running. Until a time server is contacted or the system clock is manually set, all log time stamps will present time as the number of seconds since the unit was powered up.



The screenshot shows the 'Time' configuration page. It displays the current time as 2000-01-13 20:13:48. The 'Mode' is set to 'Manual' with a dropdown arrow. The 'GMT Offset' is 00:00. Below this is a table for setting the time:

Year	Month	Day	Hour	Minutes	Seconds
0	1	13	2	57	0
(yy)			(0-23)	(0-59)	(0-59)

Below the table, the 'Server' is set to pool.ntp.org and the 'Sync Period' is 1800 seconds. A 'Save Changes' button is at the bottom.

Figure 10: Time Configuration Section

The time, date, IP address and friendly name of the unit are displayed in the top of each web page.

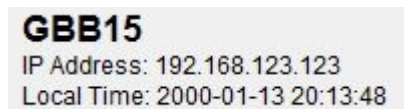


Figure 11: Date and Time Display

Note: The time and date are not adjusted for daylight savings time. Setting the time zone offset forward and backward an hour will cause a gap or overwriting of logs, respectively.

E-Mail

The unit is capable of sending e-mail to as many as three addresses at once. Most SMTP and ESMTP servers are compatible. Authentication options are None, POP3 (POP-before-SMTP) or ESMTP. The e-mail configuration is set on the *Email* section of the *Configuration* page.

An SMTP server as well as "Sender" and "Destination" addresses are required to send e-mails. Some mail servers may require a username and password. In most cases, the username does not have to match the "Sender" address, but does need to be a valid user on the authenticating server. Microsoft Exchange servers will have to be set to allow SMTP relay from the IP address of the unit. In addition, a test email can be sent from the bottom of this section.

Note: The unit cannot receive e-mails. The POP3 server is used strictly for authentication and is not required when using None or ESMTP.

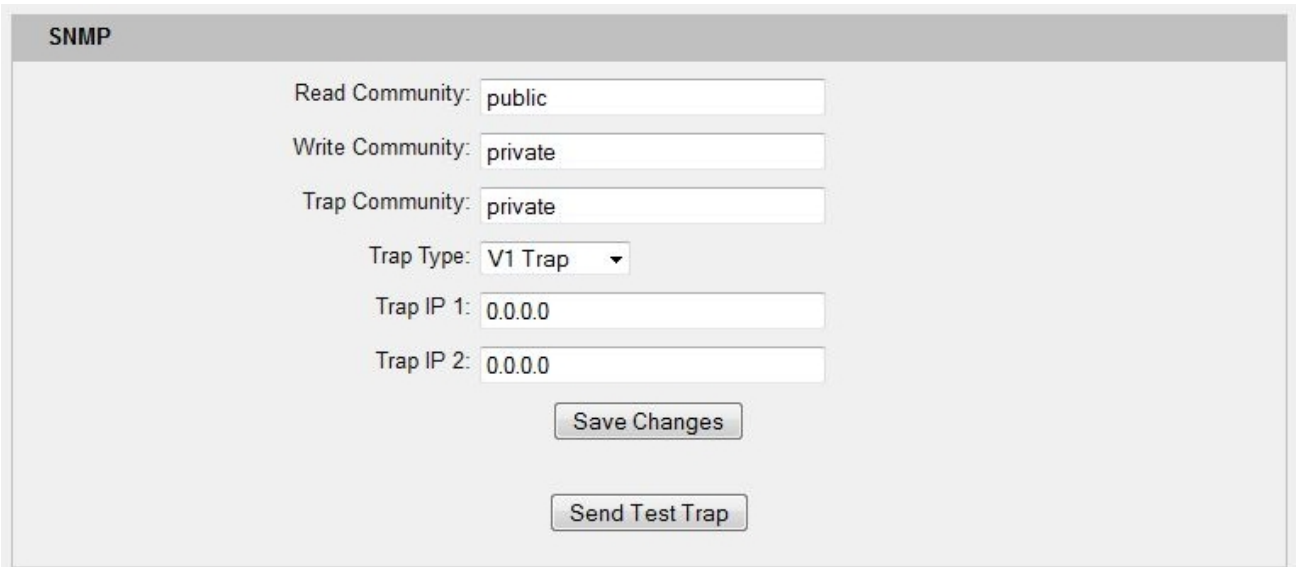
A screenshot of the "Email" configuration section in a web interface. The title "Email" is in a grey bar at the top. Below it are several input fields: "Server:" (empty), "Port:" (containing "25"), a checkbox for "Use SSL" (unchecked), "Sender:" (empty), "User Name:" (empty), "Password:" (empty), "Destination 1:" (empty), "Destination 2:" (empty), "Destination 3:" (empty), "Destination 4:" (empty), and "Destination 5:" (empty). Below these fields, it says "Email Status: OK". At the bottom, there are two buttons: "Save Changes" and "Send Test Email".

Figure 12: Email Configuration Section

SNMP

The unit supports retrieval of all data via Simple Network Management Protocol (SNMP) v1 and v2c. In addition, alarm traps can be sent to up to two IP addresses. The SNMP configuration is entered on the *SNMP* section of the *Configuration* page.

The default read community string is "public" and the MIB is downloadable via a link on the unit's web page.



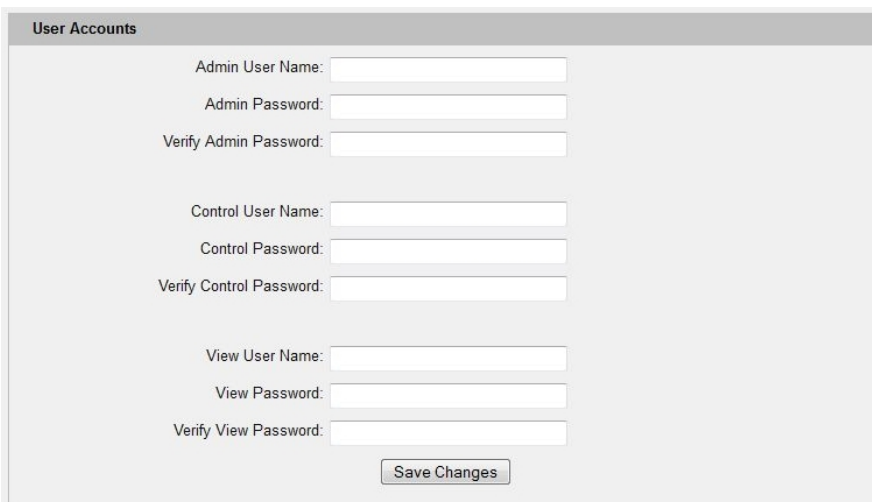
The image shows a web interface for SNMP configuration. It has a title bar 'SNMP' and several input fields: 'Read Community' with 'public', 'Write Community' with 'private', and 'Trap Community' with 'private'. There is a 'Trap Type' dropdown menu set to 'V1 Trap'. Below that are two 'Trap IP' fields, both containing '0.0.0.0'. At the bottom are two buttons: 'Save Changes' and 'Send Test Trap'.

Figure 13: SNMP Configuration Section

User Accounts

GBB15 Units offer account security options that are entered on the *User Accounts* section of the *Configuration* page. There are three levels of account security:

- **Administrator:** Password protects the Display, Alarms and Configuration pages.
- **Control User:** Password protects the Control Actions and Control Settings pages.
- **View User:** Password protects the Sensors, PDA, WAP and XML pages.



The image shows a web interface for user account configuration. It has a title bar 'User Accounts' and three sets of input fields for user creation. The first set is for the 'Admin User', the second for the 'Control User', and the third for the 'View User'. Each set includes fields for 'User Name', 'Password', and 'Verify Password'. At the bottom is a 'Save Changes' button.

Figure 14: User Accounts Configuration Section

User account names may include alphanumeric characters, spaces and underscores. Passwords may include alphanumeric characters and underscores.

Note: The Administrator account must be active to enable the Control Access and View-Only accounts.

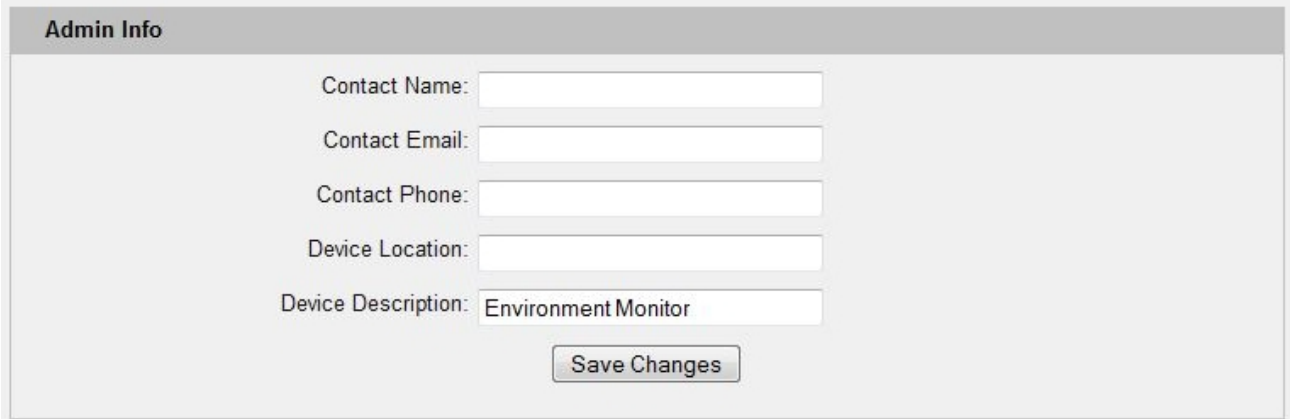
Note: The Control Access account must be active to enable the View-Only account.

Note: The account names "root" and "admin" are disabled for security reasons and cannot be re-enabled.

Warning: Record your passwords. To reset lost passwords, follow the instructions for resetting the unit's IP address and passwords given in the Default IP Address section (page 6).

Admin Information

Information entered in the *Admin Info* section of the *Admin* tab of the *Configuration* page will show up at the bottom of the unit's web interface.



The screenshot shows a web interface titled "Admin Info". It contains five input fields: "Contact Name:", "Contact Email:", "Contact Phone:", "Device Location:", and "Device Description:". The "Device Description" field is pre-filled with the text "Environment Monitor". Below the input fields is a "Save Changes" button.

Figure 15: Admin Information Configuration Section

Unit Location: Demo Rack Support: [Manuals](#), support@geistglobal.com or Call 800.432.3219 / +1.402.474.3400
Unit Description: Environment Monitor Copyright © 2003-2012 Geist All Rights Reserved.
Admin: [Geist](#)

Figure 16: Admin Information Display

Camera Configuration

Enter the domain names/IP addresses and models of up to four IP-addressable network cameras in the *Cameras* section on the *Configuration* page. The unit will present a linked snapshot from each camera on the *Sensors* page.



The screenshot shows a web interface titled "Cameras". It contains four input fields: "Camera 1, URL:", "Model:", "Username:", and "Password:". The "Model:" field is a dropdown menu currently set to "No Camera".

Figure 17: Cameras Configuration Section

Note: Each camera must be set to allow anonymous access to enable this feature.

Alarms

Alarm Notifications

The GBB15 supports three types of alarm notification:

- **E-Mail:** The unit can be configured to send alarm e-mails to up to three recipients.
- **SNMP:** The unit can be configured to send SNMP traps to up to two trap servers.

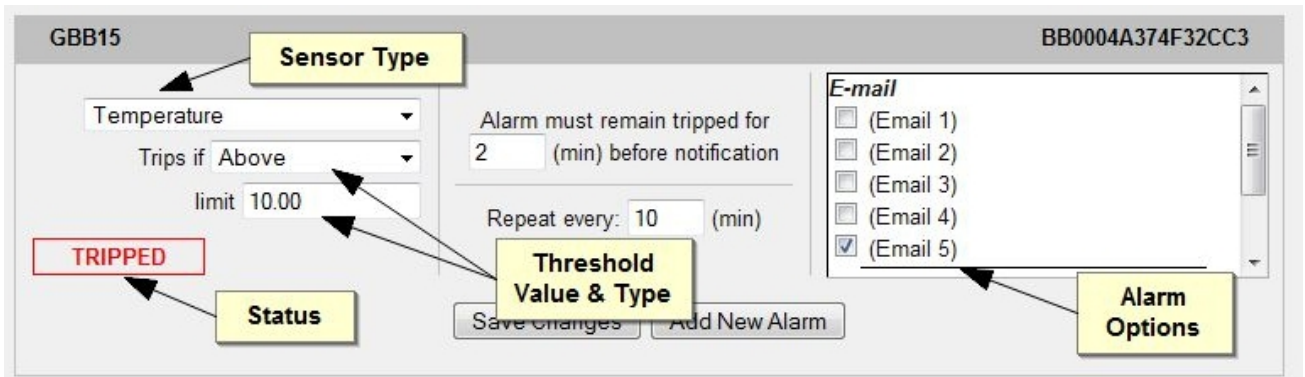


Figure 18: Alarms Options

The unit is capable of any combination of the above alarms at once. Alarm type combinations are selected per alarm via the check boxes which are displayed for each alarm on the *Alarms* page.

Alarm Types

The GBB15 provides three types of alarm messages via E-Mail and SNMP:

- **Trip:** Occurs when a sensor value goes above a high trip threshold or below a low trip threshold.
- **Clear:** Occurs when a sensor already in the Tripped or Unplugged state goes back into its normal range.
- **Unplugged:** Occurs when a sensor with an alarm set loses contact with the main unit due to the sensor being physically unplugged or another communications error.

Alarms can be added for each internal device or external sensor displayed on the Alarms page. An alarm is added by pressing the "Add New Alarm" button and selecting the sensor value to be monitored from a drop down menu.

Alarm Removal

To remove an alarm, select "REMOVE ALARM" from the sensor type drop-down menu then click the "Save Changes" button.

Thresholds

The user must set a trip threshold and type for each alarm that is added to the Alarms page. The threshold type is chosen as "Trips if" either "Above" or "Below" from a drop down menu when the alarm is created. The threshold value is typed into a data window when the alarm is created. Alarms are triggered based on the selected sensor's data and the trip threshold type and value. Alarm settings can be edited or deleted at any time.

Analysis of each unit is recommended before setting alarm thresholds as some of the values monitored by the unit are relative values whose scale will differ slightly between units. Allow each unit to operate under normal, steady-state conditions for several hours before setting alarm thresholds. By allowing the sensors to operate for several hours, the user can better understand what the normal variations are; thereby allowing the user to choose alarm thresholds that will not trigger numerous false alarms.

Note: Changes in settings take a few moments to become active. Rapidly resetting alarm values may not provide the desired results. Allow up to 2 minutes after changing a setting before modifying it again.

Sensors

Overview

All internal sensors are measured every 5 seconds. External sensors are measured every 10 to 30 seconds, depending on the number of devices connected. Sensor data collected by GBB15 units provides useful trend analysis data. While all values are not absolute in relation to a known unit, trend analysis of the data allows users to view changes and draw useful conclusions about what is happening over time in the monitored environment.

Internal Sensors

GBB15 units contain the following onboard sensors:

- **Temperature:** Measures temperature and can be displayed in °C or °F. The accuracy is ± 0.5 °C from -20°C to 80°C. Note: This sensor may be heated by internal circuitry in the unit; a temperature offset is available to re-calibrate.
- **Humidity:** Measures the percent of water vapor in the air within $\pm 2\%$ from 20% to 80%.
- **Dew Point:** Calculated measurement of temperature at which moisture in the air will turn to water based on the humidity and temperature measurements.

Remote Sensors

Available Sensors

- **RT:** Temperature
- **GTHD:** Temperature / Humidity / Dew Point
- **GT3HD:** Temperature / Humidity / Dew Point with ability to add two RT sensors
- **RTAFHD3:** Temperature / Air Flow / Humidity / Dew Point
- **CCAT:** Converts analog I/O Sensors to Remote Digital Sensors
- **RS2:** Remote power monitoring and switching

RTAFHD3 Compatibility

The (G)RTAFHD3 sensor cannot be utilized in combination with the discontinued (G)RTAF and (G)RTAFH sensors or (G)RTHD sensors built prior to 2010. If you desire to add (G)RTAFHD3 sensors to an existing installation currently utilizing incompatible sensors, please contact Customer Service for installation options.

Connecting Remote Sensors

Plug-and-play remote sensors may be attached to the unit at any time via the RJ-12 connectors on the face of the unit. In some cases splitters may be required to add additional sensors. Each sensor has a unique serial number and is automatically discovered and added to the web page. Up to four sensors may be connected to the GBB15.

The display order of the sensors on the web page is determined by the serial number of each sensor. Friendly names for each sensor can be customized on the *Display* page.

Note: The sensor uses Cat. 3 wire and RJ12 connectors. Wiring must be straight-through: reverse polarity will temporarily disable all sensors until corrected.

Note: The sensors use a serial communication protocol and are subject to network signaling constraints dependent on shielding, environmental noise, and length of wire. Typical installations allow runs of up to 600 feet of sensor wire.

Accessories

IP-Addressable Network Cameras

The unit is able to interface with up to four IP-addressable network cameras. A live snapshot from each camera will be displayed on the unit's *Overview* page. Clicking on a snapshot opens the camera's website in a new browser window.

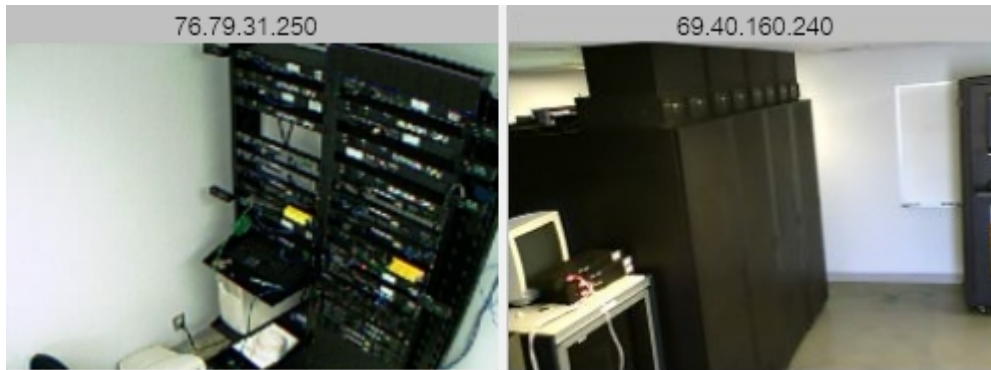


Figure 19: Camera Images

Camera model and IP address are entered on the *Monitoring* tab of the *Configuration* page.

Note: Some cameras require additional software downloads to display live video in a web browser.

Alternate Data Formats

In addition to the full access, control and configuration available via a desktop web browser, GBB15 units present data in multiple formats for easy integration with other monitoring systems. Data formats available via links on the unit's web page are:

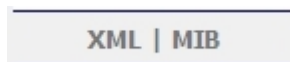


Figure 20: Alternate Format Links

- **XML:** Extensible Markup Language. Presents data in a structured tree for use with automated scripts and monitoring systems.
- **MIB:** Management Information Base. Downloads the MIB for use with SNMP monitoring tools.

Technical Support

Firmware Version

The firmware version is located in the upper right section of the web interface header, represented by v1.y.xx. Before contacting support, it is recommended that the GBB15 unit first be updated to the latest firmware version. If this is not possible, please have the unit's existing firmware version number available when contacting technical support.



Figure 21: Web Page Header

Firmware Updates

Keep your unit updated with the latest firmware releases or sign up for notifications at the following website: <http://geistglobal.com/support/monitor/firmware>.

Resetting the Unit

Should the GBB15 unit lose communication; the processor may be manually rebooted by removing power momentarily from the unit. To restore the default IP address, press the reset button located beside the network connector and hold for approximately 20 seconds. Both the idle and activity lights near the network connector will both light up when the IP address has been reset.

Service and Maintenance

No service or maintenance is required. Do not attempt to open the unit or you may void the warranty. No serviceable parts inside.

More Technical Support

<http://www.geistglobal.com>
(800) 432-3219
Email: support@geistglobal.com
Or contact your distributor.

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Revision History

Revision	Date	Notes	Approved By
1.0	8/9/2012	Initial Version	CG