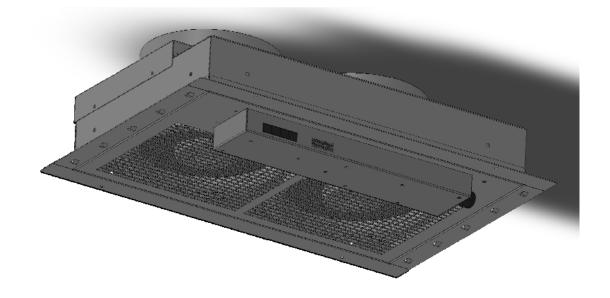


Instruction Manual RAC10 Room air controller

RAC Series Firmware Version 3.12





Contents

	_
Contents	
Specifications	3
Overview	3
Environmental	3
Electrical	3
Networking	3
Data Formats	3
Installation	4
Two Installation Options	4
Wall or ceiling mount for automated heat exhaust and critical monitoring / alerts. Optional Sys	tem for room
air supply required for some room and load conditions	4
Network Overview	6
Default IP Address	6 7
Initial Setup	7
Web Interface	
Overview	9
Sensors Page	9
Logging Page	10
Display Page	11
Alarms Page	12
Control Page	13
Configuration Page	14
Unit Configuration	
Network Configuration	22
Time and Date	23
E-Mail	23
SNMP	25
Accounts and Passwords	26
Telnet	26
Camera Configuration	27
Admin Information	27
RAC Operation	
Initial Set Point Configuration	28
General Operation	28
Alarms	29
Alarm Notifications	29 30
Alarm Types	30
Thresholds Sensors	31
Overview	
Items Displayed on <i>Sensors</i> Page	31
Remote Sensors	31
Data Logging and Display	32
Accessories	
IP-Addressable Network Cameras	33
RSC Integration	33
Alternate Data Formats	33
Technical Support	34
Firmware Version	34
Firmware Updates	34
Service and Maintenance	34
More Technical Support	34
Table of Figures	35
Revision History	

Specifications

Overview

The RAC system evacuates heat load from the small space and sends it to the outside corridor or ceiling plenum return. The RAC system provides control and monitoring via a built-in web server. Web pages, including graphs, are generated by the unit to monitor RAC settings and environmental conditions within the room. No software other than a web browser is required for operation and several data formats are available. The RAC system includes one internal temperature sensor, two external temperature sensors, and ports for two additional (optional) external temperature sensors. Optional external network cameras can also be displayed on the RAC's web pages.

Environmental

Temperature

Operating: 10°C (50°F) min 45°C (113°F) max Storage: -25°C (-13°F) min 65°C (149°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

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.

Electrical

120V, 60 Hz

Networking

Protocols

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

3

Ethernet Link Speed

10 Mbit; half-duplex

Data Formats

HTML, SNMP, CSV/Plain Text, XML

Installation

- The RAC10 relies on the building installation for protection from overcurrent. A Listed circuit breaker is required in the building installation. The circuit breaker should be rated at 15 or 20 Amps.
- Install the RAC10 so the input plug may be disconnected for service.

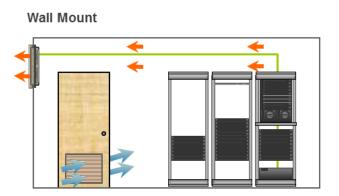
Installation:

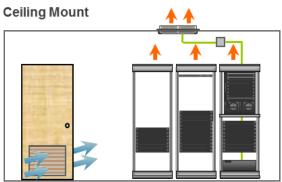
- 1. Using appropriate hardware, mount unit into wall or dropped ceiling as detail in Mounting Requirements Section of Instruction Sheet.
- 2. Plug RAC10 into appropriately rated and protected branch circuit receptacle.

Service and Maintenance:

No service or maintenance is required. Do not attempt to open the RAC10 or you may void the warranty. No serviceable parts inside.

Two Installation Options





Wall or ceiling mount for automated heat exhaust and critical monitoring / alerts. Optional System for room air supply required for some room and load conditions

4

Mounting Requirements

Drop-Ceiling Mount

- 1. Must use 18 gauge drop-ceiling hanger wire.
- 2. Attach to unit through 4 eyelets on top of unit as shown in Figure 1.
- 3. Supplying power receptacle must be below drop ceiling to keep power cord out of plenum space.
- 4. Optional RAC-D002 duct kit may be used for interfacing to existing duct work.

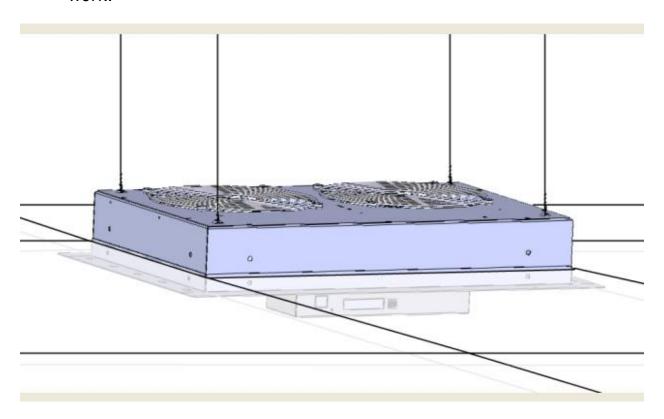


Figure 1: RAC10 Drop-Ceiling Mount

Wall Mount

- 1. Mount to wood studs, spaced 16" apart.
- 2. Must use 2" length, #10 wood screws into studs as shown in Figure #2.

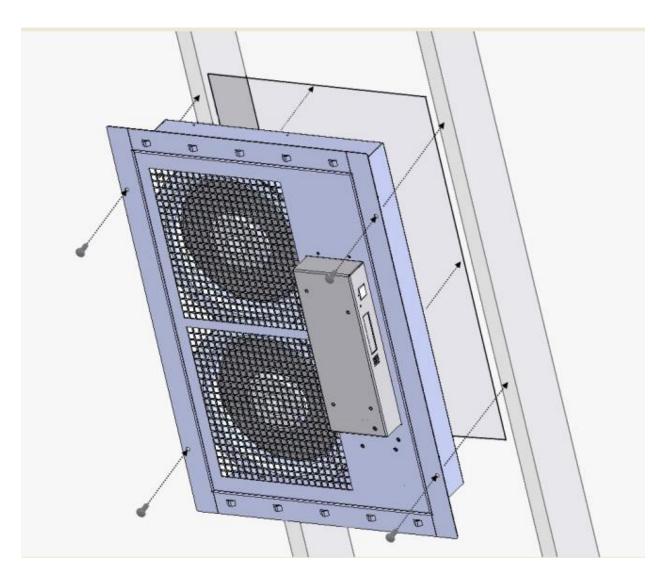


Figure 2: RAC10 Wall Mount

Network Overview

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

Default IP Address

RAC 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 and hold the reset button located below the network connector for 20 seconds. The idle and activity lights on the network connector will both light up when IP address has been reset. The reset button is accessed through the white, circular hole located below the Ethernet jack.

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

6

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 RAC unit to your computer using a crossover cable or hub/switch.

Windows XP

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 22) for details.

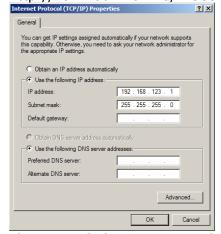


Figure 3: Windows XP network settings for initial setup

MacOS X Leopard

Open System Preferences via the Dock or the Apple menu.

Select "Network" under "Internet & 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://192.168.123.123/. See Unit Configuration (page 22) for details.



Figure 4: MacOS X network settings for initial setup

Web Interface

Overview

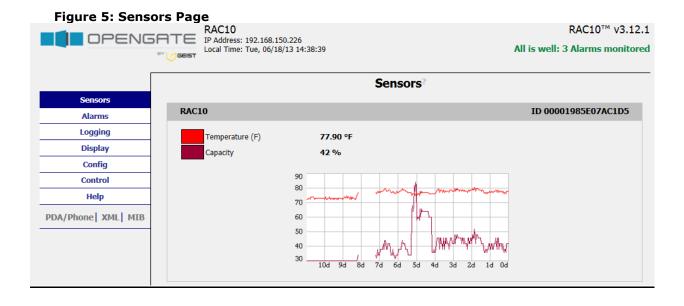
The unit is accessible via a standard, unencrypted HTTP connection as well as an encrypted HTTPS (SSL) connection. The following web pages are available:

Sensors Page

The front page, *Sensors*, gives both instantaneous and historical views of the unit's data. Real time readings are provided for all data next to historical graphs.

Optional cameras may be added and their live snapshots are shown on this page. Plug-and-play external temperature sensors appear on this page when installed.

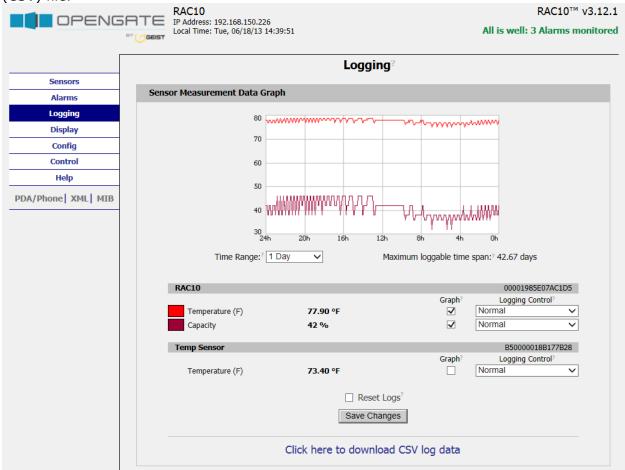
The menu bar allows access to the rest of the RAC's functionality.



9

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. Recorded data is available for download in a comma-separated values (CSV) file.



10

Figure 6: Logging Page

Display Page

The *Display* page allows the user to assign a friendly name to the Fan Controller as well as change the default temperature unit of measure for internal and external 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.

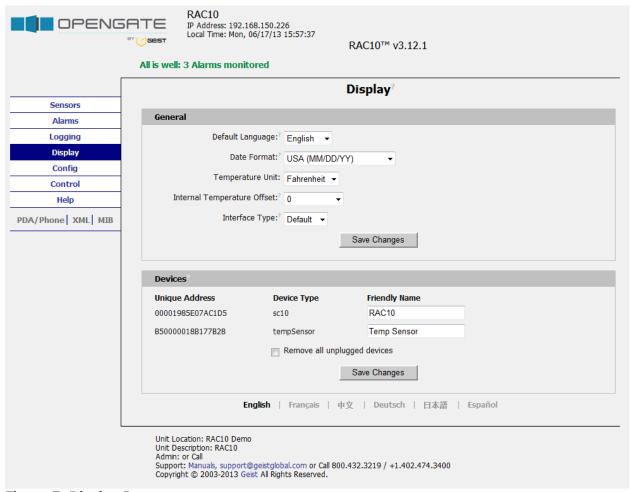


Figure 7: Display Page

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. Alarm options include time tripped before notification, a repeat cycle, Email and SNMP Trap. There is also a provision to notify if a sensor is unplugged. See Alarms (page 28) for details.

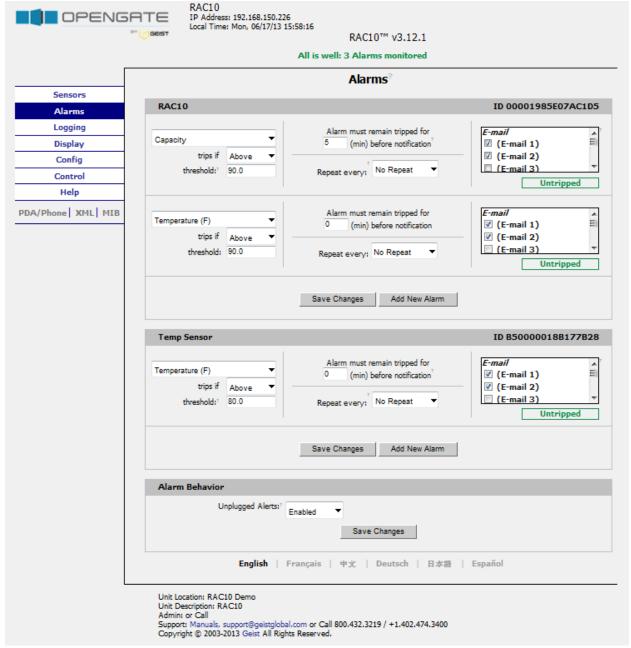
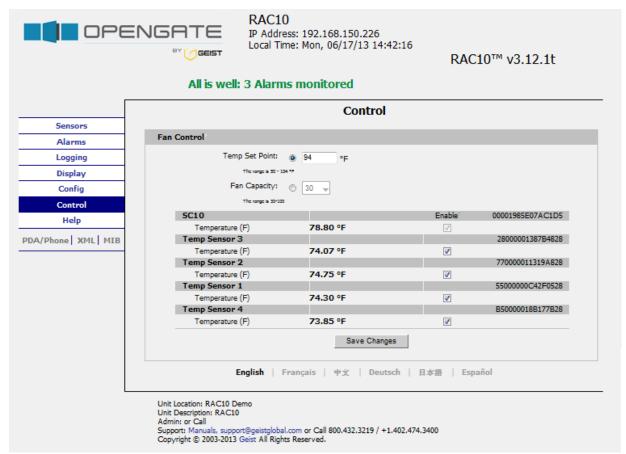


Figure 8: Alarms Page

Control Page

The *Control* page gives the user several options for entering the RAC control set point. A drop down menu allows the user to choose between a temperature set point or a manual fan capacity set point. In addition, the Control page allows the user to assign friendly names to any external temperature sensors attached to the RAC.



13

Figure 9: Control Page

Configuration Page

The Configuration page has five sub-tabs; Network, Monitoring, Diagnostics, Event Log, and Admin. See Unit Configuration (page 22) for details.

Configuration Network Tab

The user can enter and update the network settings on the *Network* tab of the *Configuration* page. See Unit Configuration section for details.

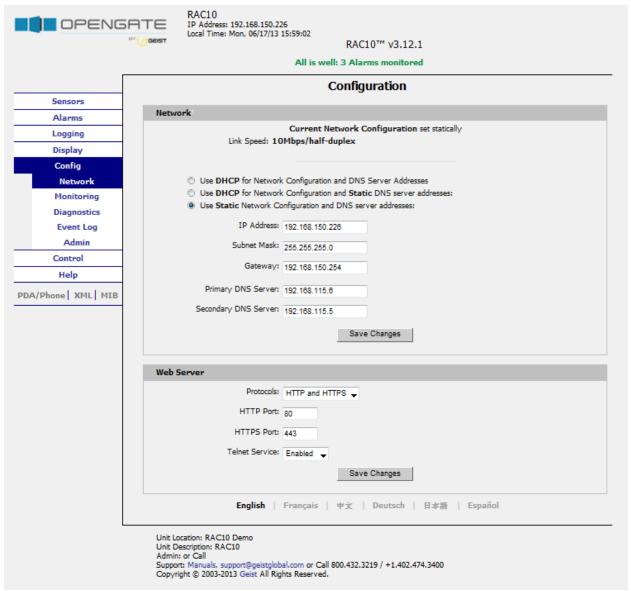
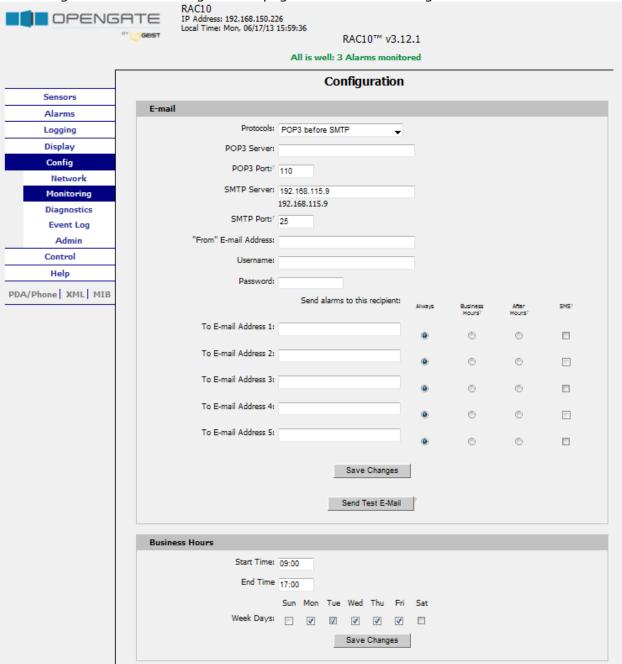
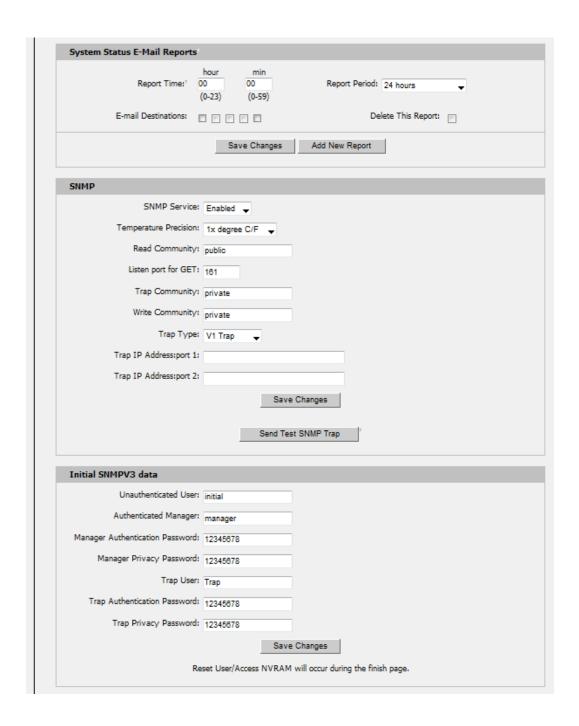


Figure 10: Configuration Network Tab

Configuration Monitoring Tab

The user can enter and update the email alert, SNMP, and camera settings on the *Monitoring* tab of the *Configuration* page. See Unit Configuration section for details.





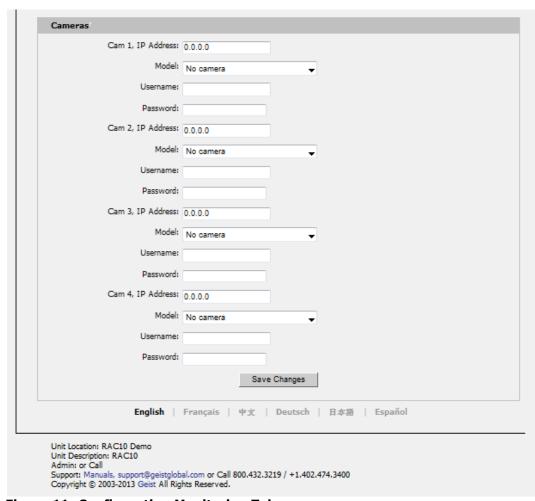


Figure 11: Configuration Monitoring Tab

Configuration Diagnostics Tab

The user can update the Syslog settings on the *Diagnostics* tab of the *Configuration* page.

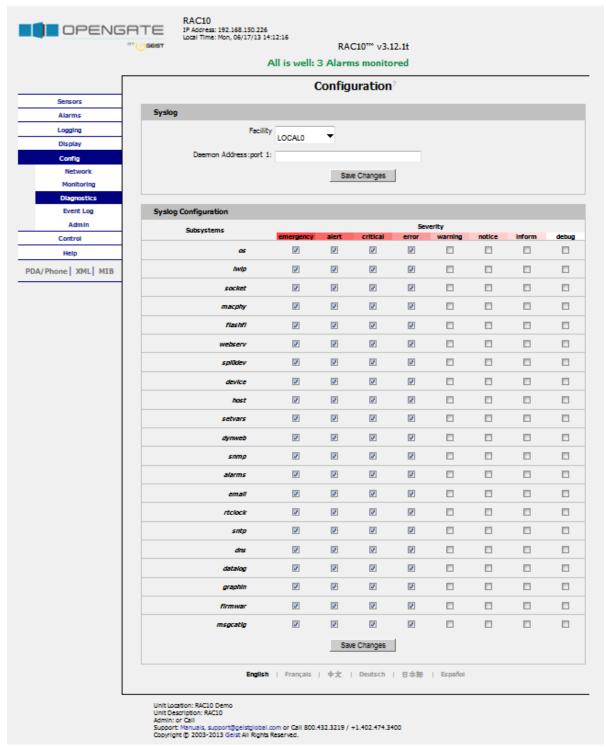


Figure 12: Configuration Diagnostics Tab

Configuration Event Log Tab

The user can view the Event Log and update the Memory Syslog settings on the *Event Log* tab of the *Configuration* page.

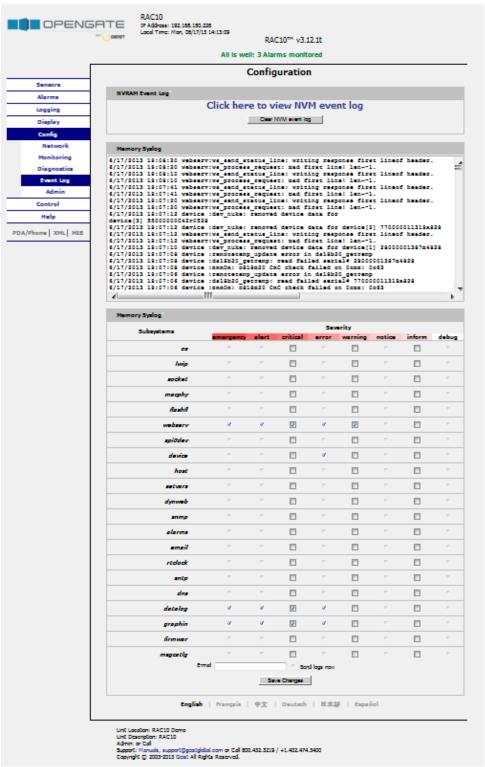
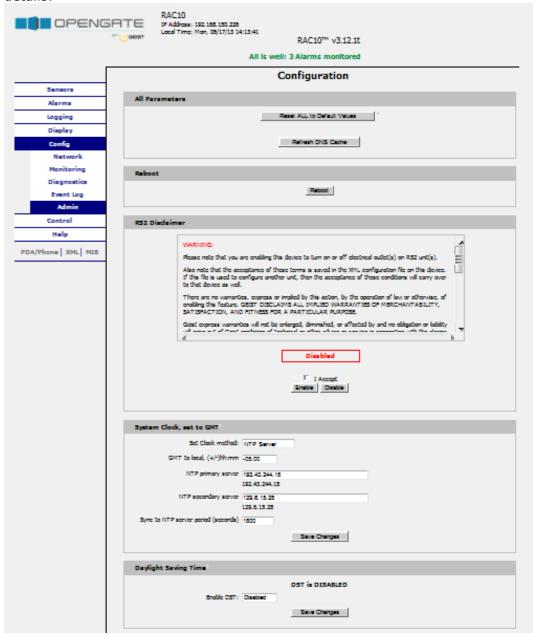


Figure 13: Configuration Event Log Tab

Configuration Admin Tab

The user can set the system clock and administrative information on this tab. Additionally the user can set administrator and account passwords. See Unit Configuration section for details.



20

Name and Password Configuratio	•
	eaving Old Password blank results in no changes to that account.
NOTE 2: Administrator password may be used it	n the Old Password field of any account.
NOTE 2: If setting New Password to blank, Acc	
NOTE 4: If New Password is not blank, Account	Name must not be blank
Administrator Account N	
Old Peas	ward
Now Peas	word
Now Password	Agoin (again, to confirm)
Coming Speed read	secured Less of passened may reprin 40 have to recent
Control Account N	
Old Pass	ward
Now Peas	word
Now Password	Agoin (again, to confirm)
Coming Speed read	secured Less of passened may reprin 40 have to recent
15 54-5	
View Only Account N	
Old Poss	
Now Peas	ward
Now Password	Agoin (again, to confirm)
Warring Faced years	parametic Lance of parametic response for these for managements
	Save Changes
Admin Info	
Confact Name:	
Confact Break	(ejsContact)
Confact Phone:	
Device Location:	ACID Description
Device Description: g	AC10 (splame)
	Save Changes
Saved Configuration XML file	
XML Mic	(Srouss)
	Upload Local XXVL File
	5 1 45 100 51
	Download Current XML File
55L Certificate and Private Key	
	55. Certificate and Private Key are INVALID
SSL Certificate File:	Erova
SSL Private Key Mic:	(Browns)
The state of the s	
	Uploed SSL Files
	Grase SSL Data
Upload System firmware	
Pirmware package file:	Eronas
	Upload New Firmware
	Speed from Patrician
Pinnivare upla	ed may take a few minutes. Please well for response from browser.
English F	rançais 中文 Deutach 日本語 Español
Unit Location: RAC18 Domo	
Unit Description: RAC10	
Admin: or Call	m or Call 800.432.5219 / +1.402.474.3400
Copyright © 2003-2013 Goat All Rights R	novel.

Figure 14: Configuration Admin Tab

Network Configuration

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

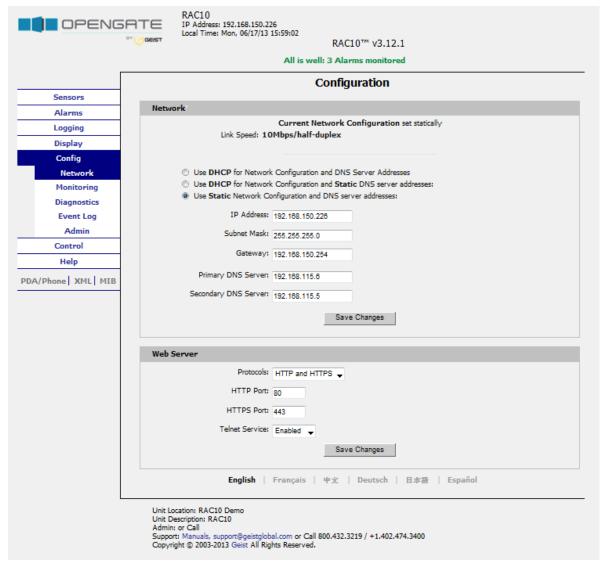


Figure 15: Network Configuration

- DHCP: Allows the unit to request a dynamic IP address from a server on the network.
- Static IP Address/Net Mask/Gateway: When not using a dynamic address, enter static network configuration information here.
- Telnet Service: Enable or disable the built-in Telnet server. See Telnet (page 26) for details.
- HTTP Services: Enables/disables access via HTTP and HTTPS. Available options are: HTTP
 and HTTPS, HTTP only, and HTTPS only. It is not possible to disable the web interface
 completely.
- HTTP/HTTPS Server Port: Changes the TCP port that each server listens on.
- **DNS Servers:** Allows the unit to resolve host names for Email, NTP and SNMP servers as well as cameras.

Time and Date

The system clock is set on the *Admin* tab 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 "NTP primary 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 and graphs will not be shown.

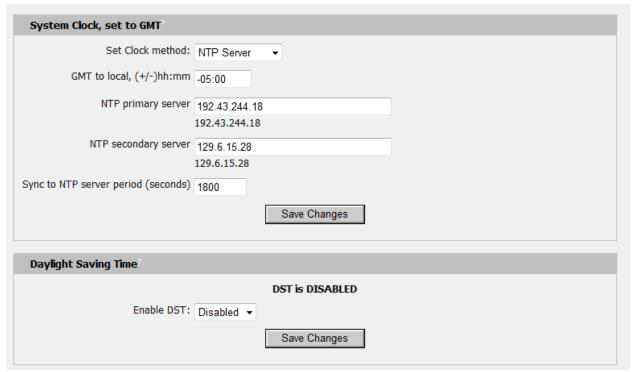


Figure 16: Time Settings

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

RAC10 IP Address: 192.168.150.226 Local Time: Mon, 06/17/13 14:36:36

Figure 17: Time and Date 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 five 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 *Monitoring* tab of the *Configuration* page.

E-mail					
Protocols:	POP3 before SMTP ▼				
POP3 Server:					
POP3 Port:?	110				
	192.168.115.9 192.168.115.9				
SMTP Port:?					
"From" E-mail Address:					
Username:					
Password:					
	Send alarms to this recipient:	Always	Business Hours?	After Hours?	SMS?
To E-mail Address 1:		•		©	
To E-mail Address 2:		•	©	©	
To E-mail Address 3:		•	©	0	
To E-mail Address 4:		•	0	0	
To E-mail Address 5:		•	0	©	
	Save Changes				
	Send Test E-Mail	?			

Figure 18: E-Mail Configuration

An SMTP server as well as "From" and "To" 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 "From" 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 the *Monitoring* tab of the *Configuration* page.

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

Status Reports

When enabled, the unit will periodically send a full status report to all "To" e-mail addresses selected for the report. The report includes current unit data from all attached sensors as well as alarm states. Reporting frequency options are: weekly, hourly, every 2, 3, 4, 6, 8, 12, 24, or 48 hours. E-mail addresses are selected when the report is created by checking the corresponding e-mail destination box. Allowing the cursor to hover over an e-mail destination box will display the e-mail address that the box is associated with.

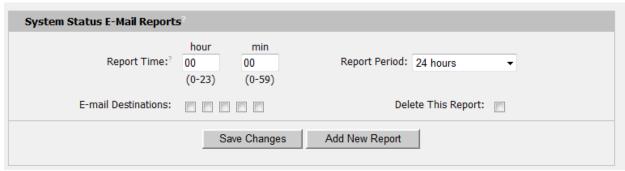


Figure 19: Email Report Settings

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 *Monitoring* tab of the *Configuration* page.

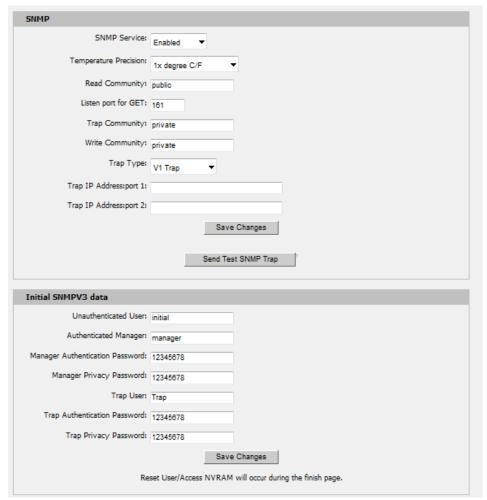


Figure 20: SNMP Configuration

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

Accounts and Passwords

The Fan Controller offers account security options that are entered on the *Admin* tab of the *Configuration* page. There are three levels of account security:

- **Administrator:** Password protects the *Display, Alarms* and *Configuration* pages.
- **Control Access:** Password protects the *Control* page.
- View-Only: Password protects the Sensors page, including PDA and XML data.

Name and Password Configuration	
NOTE 1: If Account currently has a password, leaving Old Password blank resul NOTE 2: Administrator password may be used in the Old Password field of any NOTE 3: If setting New Password to blank, Account Name must also be blank. NOTE 4: If New Password is not blank, Account Name must not be blank.	
Administrator Account Name ⁷	
Old Password	
New Password	
New Password Again	(again, to confirm)
Woming: Record your password. Lass of password r	may require 48 hours to recover.
Control Account Name	
Old Password	
New Password	
New Password Again	(again, to confirm)
Woming: Rocord your password. Lass of password	
View Only Account Name	
Old Password	
New Password	
New Password Again	(again, to confirm)
Werning: Record your password. Lass of password	
S	ave Changes

Figure 21: Account Configuration

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. To generate a temporary recovery password to access the unit, contact customer service from a location where the unit can be accessed via the internet.

Telnet

The unit provides a Telnet server for basic monitoring via the command line. The Administrator account must be enabled to use the Telnet interface. Type "help" after logging in to the unit to see a list of available commands. The Telnet service can be disabled under "Web Server" on the *Network* tab of the *Configuration* page.

Note: The All data sent via Telnet is unencrypted. Some settings can be changed and user names and network settings are available via Telnet. In secure environments, it is recommended that Telnet be disabled.

Camera Configuration

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

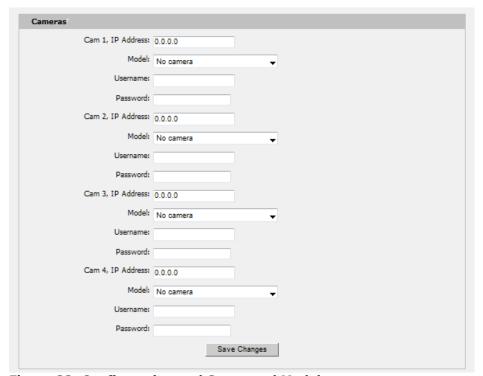


Figure 22: Configuration and Supported Models

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

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.

27

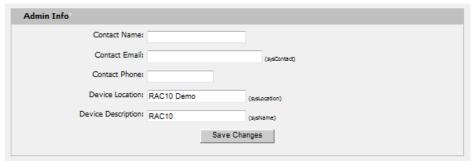


Figure 23: Admin Information Fields

Unit Location: RAC10 Demo
Unit Description: RAC10
Admin: or Call
Support: Manuals, support@geistglobal.com or Call 800.432.3219 / +1.402.474.3400
Copyright © 2003-2013 Geist All Rights Reserved.

Figure 24: Admin Information Display

RAC Operation

Initial Set Point Configuration

After configuring an IP address and attaching any external sensors, power up the RAC and allow about a minute for the device to boot up. Go to the unit's *Control* page and select a control mode. The available control modes are:

- **Temperature Set Point:** Tells the RAC to use the set point entered when controlling fan speed.
- **Fan Capacity:** Tells the RAC to use the set point entered in the box on the *Control* page for fan capacity.

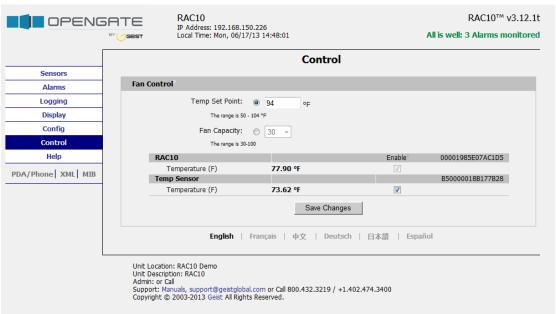


Figure 25: Set Point Configuration

General Operation

Once the desired mode of operation and set point has been set, the unit will operate without any interaction with the user.

28

<u>Alarms</u>

Alarm Notifications

The RAC supports 2 types of alarm notification:

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

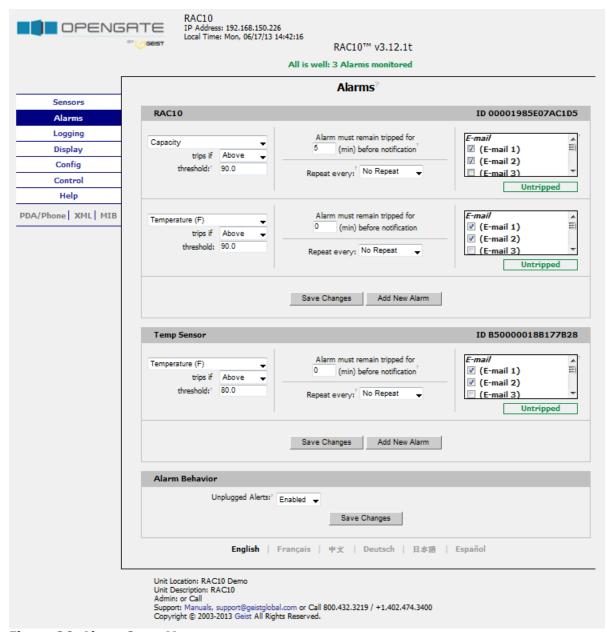


Figure 26: Alarm State Menu

The RAC 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 RAC 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 set point, fan speed, and internal or external temperature sensors 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.

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 either "High Trip" or "Low Trip" 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.

30

Sensors

Overview

The internal temperature sensor is measured every 5 seconds. External sensors are measured at approximately the same rate, depending on the number (1-4) of devices connected. Sensor data collected by the Fan Controller gives useful trend analysis data that allows users to view changes and draw useful conclusions about what is happening over time in the monitored environment.

Items Displayed on Sensors Page

The RAC will display the following items on the Sensors page:

- **Set Point Temp:** Displays the desired temperature set by the user.
- Internal Temp: Displays measured temperature inside the unit in °C or °F.
- **Temp 1:** Displays temperature measured by external sensor in °C or °F. This value will read 0 °C or 32 °F until and external temperature sensor is connected.
- **Temp 2:** Displays temperature measured by external sensor in °C or °F. This value will read 0 °C or 32 °F until and external temperature sensor is connected.
- **Temp 3:** Displays temperature measured by external sensor in °C or °F. This value will read 0 °C or 32 °F until and external temperature sensor is connected.
- **Temp 4:** Displays temperature measured by external sensor in °C or °F. This value will read 0 °C or 32 °F until and external temperature sensor is connected.
- **Fan Speed:** Percent, from 30-100 of maximum fan speed.

Remote Sensors

Available Sensors

- RT-12: Temperature 12 ft. cord
- RT-20: Temperature 20 ft. cord

Connecting Remote Sensors

Plug-and-play remote temperature sensors may be attached to the RAC at any time via the RJ-12 connectors on the unit. Each sensor has a unique serial number and is automatically discovered and added to the web page. Up to four temperature sensors may be connected.

Note: The display order of the sensors on the web page is determined by the internal serial number of each sensor. Friendly names for each sensor can be customized on the *Display* page. The RAC will only recognize RT (Temperature) sensors. The RAC uses the highest temperature reading available when adjusting fan speed.

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.

31

Data Logging and Display

All data collected by the unit can be graphed. The *Logging* page allows the user to select graphed content to be logged. Selected sensor values are logged into the data file at a rate of one point per minute. The number of selected sensors determines the maximum data logging time span. This period is calculated and displayed on the *Logging* page. The oldest data will be deleted when the onboard memory fills up in order to make room for new data.

Revision Date: 09/03/2014

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 *Sensors* page underneath the main unit's graph. Clicking on a snapshot opens the camera's website in a new browser window.



Figure 27: 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.

RSC Integration

For users with multiple RacSense units, Geist RSC software offers:

- Convenient, single-window monitoring of multiple units via simple web-based interface
- Streamlined firmware updating
- Consolidation of alarm settings

See http://www.qeistglobal.com/ for more information.

Alternate Data Formats

In addition to the full access, control and configuration available via a desktop web browser, Fan Controller Series products 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 28: Alternate Format Links

- PDA/Phone: Presents data in a format best-suited for PDA or cellular phone web browsers.
- **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 v3.y.xx. Before contacting support, it is recommended that the Fan Controller first be updated to the latest firmware version. If this is not possible, please have the existing firmware version number for the unit available when contacting technical support.

RAC10

IP Address: 192.168.150.226 Local Time: Mon, 06/17/13 14:42:16

RAC10™ v3.12.1t

Figure 29: Web Page Header

Firmware Updates

Keep your unit updated with the latest firmware releases or sign up for notifications. http://www.geistglobal.com/GeistUS/Docs/downloads.htm.

Service and Maintenance

No service or maintenance is required. Do not attempt to open the PDU or you may void the warranty. No serviceable parts inside. It is recommended that power be removed from the unit before installing or removing any equipment.

34

More Technical Support

http://www.geistglobal.com

(800) 432-3219

Email: support@geistglobal.com
Or contact your distributor.

Table of Figures

Figure 1: RAC10 Drop-Ceiling Mount	5
Figure 2: RAC10 Wall Mount	
Figure 3: Windows XP network settings for initial setup	7
Figure 4: MacOS X network settings for initial setup	8
Figure 5: Sensors Page	
Figure 6: Logging Page	
Figure 7: Display Page	
Figure 8: Alarms Page	
Figure 9: Control Page	13
Figure 10: Configuration Network Tab	
Figure 11: Configuration Monitoring Tab	17
Figure 12: Configuration Diagnostics Tab	18
Figure 13: Configuration Event Log Tab	19
Figure 14: Configuration Admin Tab	21
Figure 15: Network Configuration	
Figure 16: Time Settings	23
Figure 17: Time and Date Display	23
Figure 18: E-Mail Configuration	24
Figure 19: Email Report Settings	25
Figure 20: SNMP Configuration	25
Figure 21: Account Configuration	26
Figure 22: Configuration and Supported Models	27
Figure 23: Admin Information Fields	27
Figure 24: Admin Information Display	27
Figure 25: Set Point Configuration	28
Figure 26: Alarm State Menu	29
Figure 27: Camera Images	33
Figure 28: Alternate Format Links	
igure 29: Web Page Header	34

Revision History

Revision	Date	Notes	Approved By
0.0	4/27/2013	Initial Version	JB
1.0	6/18/2013	Revised	JB

36