

Addendum—HUBBCOM[™] Temperature Sensor Configuration and Operation

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General Information

This addendum covers the configuration and operation of the temperature sensor option in HUBBCOM[™] smart controller Models GSC1100TS, GSC2100TS, GSC3100TS, and GSC4100TS. The temperature sensor option uses an NCIT (non-contact infra-red thermometer) to enable contactless EST (elevated skin temperature) scanning. This provides an additional layer of contactless access control. Personnel entering a secured area must also pass the temperature screening function on the HUBBCOM smart controller before entry.

Configuration

Configure the temperature sensor feature using the GUDA (GAI-Tronics Universal Device Application) software. Refer to Pub. 42004-531 for instructions on downloading, installing, and using the GUDA software. Configure the smart controller using the instructions in Pub. 42004-551, HUBBCOM Device Configuration Guide before configuring the temperature sensor using these instructions.

The TEMPERATURE SENSOR settings are under the ACCESS CONTROL node of the currently connected HUBBCOM device's configuration tree (see Figure 1).

Point-to-Point Contacts Access Control <u>Temperature Sensor</u> Auxiliary Door Control Web Portal

> Figure 1. Temperature Sensor Parameter Location

NOTE: This branch of the configuration tree only appears when connected to a HUBBCOM device with the temperature sensor option.

Configure the temperature sensor parameters to enable the temperature sensing feature on a HUBBCOM smart controller (see Figure 2 and <u>Table 1</u>). Default settings are in bold font in the table.

The temperature sensing feature operates in conjunction with the *access control* and *auxiliary door control* features of HUBBCOM smart controllers. Configure the HUBBCOM smart controller to recognize NFC cards on the FEATURE AVAILABILITY screen and/or RFID cards on the ACCESS CONTROL screen. When using the NFC reader, configure the NFC facility ID code on the FEATURE AVAILABILITY screen when the facility has multiple buildings or areas.

Use the auxiliary door control feature with the temperature sensing feature to scan personnel before entry after an operator activates the entry station's output. Configure the smart controller with the temperature sensor as the *Activator* and configure the multicast address, port, and TTL (see Pub. 42004-551) (see the <u>Reference Material</u> section).

Configure an entry point's availability when using a local output to activate a door control by enabling the output's *enabled time*. Refer to the output contacts section of Pub. 42004-551 (see the Reference Material section).

Temperature Sensor		
Use Temperature Sensor	Yes	•
Email on Failed Read	No	
Measurement Scale	Celsius	*
Min. Acceptable Temperature		32.0 +
Max. Acceptable Temperature		38.0 + -
Temperature Offset		0.0 +
Before Read Delay (sec)		10 +
After Read Delay (sec)		3+-
Optional Relay	None	-
Optional Relay Time (sec)		10 +

Figure 2. Temperature Sensor Configuration

Parameter	Description	Valid Settings
Use Temperature Sensor	Enables/disables the temperature sensor to scan personnel before entry to a restricted area.	Yes No
Email on Failed Read	Enables/disables sending an email to the SMTP address in the <i>notification email</i> parameter on the ACCESS CONTROL tab. Email notifications require configuration of the SMTP settings on the NOTIFICATION screen (see Pub. 42004-551).	Yes No
Measurement Scale	Sets the temperature scale to Celsius or Fahrenheit.	Celsius Fahrenheit
Min. Acceptable Temperature	Set the minimum acceptable temperature that permits entry. Update this parameter to a meaningful value when changing the units between Celsius and Fahrenheit. Enter a numeric value or use the \pm buttons to change the value.	0.0–125.0, 32 °C
Max. Acceptable Temperature	Set the maximum acceptable temperature before access denial occurs. Update this parameter to a meaningful value when changing the units between Celsius and Fahrenheit.	0.0–125.0, 38 °C
Temperature Offset	Enter the number of degrees to add to or subtract from the measured temperature to account for any variation present from the HUBBCOM's environment. Use this setting to calibrate the smart controller.	-10 to +10, 0 degrees
Before Read Delay (sec)	Enter the time in seconds that the smart controller waits before signaling the temperature scan. The HUBBCOM emits four beeps and a bop tone before scanning the subject's temperature. This delay allows the person to align their eyes with the template displayed on screen.	1–10, 10 seconds
After Read Delay (sec)	Enter the time in seconds that the smart controller waits after scanning an individual before taking any action.	1–10, 3 seconds
Optional Relay	 Select one of four available outputs that activates when the subject's measured temperature is outside of the acceptable temperature range. NOTE: Local outputs one and two are solid state relay contacts capable of switching 0.4A at 60 V max. Outputs are on the rear panel of the smart controller. NOTE: USB 1 and 2 require connection to an external I/O board via the USB port on the rear panel of the smart controller. 	 None Local Out 1 Local Out 2 USB Out 1 USB Out 2
Optional Relay Time (sec)	Set the period of relay activation for temperature scans that are outside of the acceptable range.	0–60, 10 seconds

Operation

Environment

Environmental considerations for the smart controller's NCIT (non-contact infra-red thermometer) performance:

- Use the temperature scanning feature of the smart controller in a draft-free space that is out of direct sunlight and away from radiant heat sources.
- The optimal environment for the smart controller temperature sensor is between 60.8–104 °F (16–40 °C) with the relative humidity below 85 percent.
- Allow the smart controller to operate in the testing environment for 10–30 minutes to adjust to its environment before scanning personnel.

Subject Preparation

To obtain accurate skin temperatures, ensure that:

- The person's forehead is clean, dry, and not blocked during measurement.
- The person was not wearing a hat or underwent recent physical exertion, just entered from a much lower temperature environment, recently used facial cleaning products, or other act that affects the skin temperature of the subject.

Scan Personnel

When temperature scanning is on and a person scans their access badge:

1. The HUBBCOM smart controller waits the *before-read delay* period, emits four beeps and a bop tone, then scans the person's temperature.

The smart controller displays two ovals in the lower left corner of the screen. The *before read delay period* gives the person time to align their eyes with the two ovals on screen.

- 2. The subject aligns their eyes with the two ovals on the screen with their forehead six inches from the screen.
- 3. The HUBBCOM displays the temperate scanned on screen for the after-read delay period.
- 4. The HUBBCOM compares the scanned temperature to the minimum and maximum acceptable temperatures in the smart controller's configuration and:
 - (pass) activates the *wiring interface* configured on the ACCESS CONTROL screen.
 - (failure) sends a notification email to the *notification email* address configured on the ACCESS CONTROL screen (see the *email on failed read* parameter in <u>Table 1</u>) and activates the *optional relay* for the *optional relay time* (in seconds).

Reference Material

GAI-Tronics' product documentation is on the GAI-Tronics website under the Resources tab at <u>https://www.hubbell.com/gai-tronics/en/manuals</u>.

Title	Publication
GUDA (GAI-Tronics Universal Device Application)	
HUBBCOM Device Configuration Guide	

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If the equipment requires service, contact your Regional Service Center for a return authorization number (RA#). Equipment should be shipped prepaid to GAI-Tronics with a return authorization number and a purchase order number. If the equipment is under warranty, repairs or a replacement will be made in accordance with the warranty policy set forth above. Please include a written explanation of all defects to assist our technicians in their troubleshooting efforts.

Call 800-492-1212 (inside the USA) or 610-777-1374 (outside the USA) for help identifying the Regional Service Center closest to you.