



Wireless Asset Monitoring - Local Food Safety Software BA/WAM-L-F

Software Installation and User Guide



System Overview

The BAPI Wireless Asset Monitoring Local (WAM Local) Software receives temperature data wirelessly from sensors placed throughout a facility. This data is logged and recorded into a Structured Query Language (SQL) database that is stored on a local computer. Users can access this information to meet Food Safety and HACCP requirements and identify potential problem areas. Users can set parameters to receive audible alarms and alarm messages via email or text when temperatures go outside the specified range.

Software Disk or Download

The BAPI software disk or download has multiple programs including a BAPI PDF Product Catalog, WAM Local software, Wireless Receiver Test Software, Discover IP Address Software and Computer Receiver Drivers.

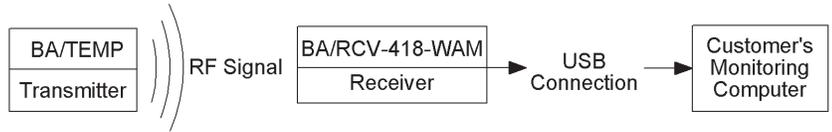


Fig 1: WAM Local system block diagram.

Table of Contents

<u>Section and Description</u>	<u>Pg</u>	<u>Section and Description</u>	<u>Pg</u>
A. Hardware Requirements	2	I. Food Sensors Administration Screen	9
B. Software Installation	2	J. Menus Administration Screen.....	10
C. First-time Software Startup & Quick Start Guide (The Initial Steps to get your system up and running)....	3	K. Other Sensors Administration Screen	11
D. Food Sensors Monitoring Screen Overview.....	4	L. Alarms Administration Screen	12-13
E. Other Sensors Monitoring Screen Overview	5	M. Data Management Administration Screen.....	13-14
F. General Options Administration Screen	6	N. Reporting Administration Screen.....	14
G. Employees Administration Screen.....	7	O. Commissioning and Verification	15
H. Foods Administration Screen	8	P. General Specifications	15

A. Hardware Requirements

Before using the WAM Local Software, verify that you have all of the required hardware listed below.

1. A PC running Windows 7 or later, CD Disk Drive, 40 GB Hard Drive, 500 MB RAM, USB Port for WAM Receiver connection.
2. A WAM Receiver (BA/RCV418-WAM) that is running and connected to the user's computer via USB cable. Follow the WAM Receiver instructions (29449_ins_RCV-418-WAM.pdf).
3. At least one Wireless Food Probe Sensor (BA/WFP). Follow the Food Probe Sensor instructions (24777_ins_WFP.pdf). Verify that the Food Probe Sensor is communicating with the WAM Receiver using the "Wireless Receiver Test Program" as described in the WAM Receiver instructions (29449_ins_RCV-418-WAM.pdf).

B. Software Installation

Installation from CD: Insert the BAPI software disc into the disk drive. The disc will start to load automatically. The Food Safety System software works in conjunction with the Wireless Receiver which should already be operating.

1. Installation CD auto-launches the Food Safety System installer.
2. Follow the on-screen instructions to complete the installation. When installation is complete, a startup icon (Fig. 2) will be automatically added to your desktop along with other test program menus. For the Wireless Receiver Test Software and Discover IP Address, click on the icon to launch the program.

Installation or Update from BAPI Website:

1. Go to the BAPI Website on the computer you are using or intend to use for Wireless Asset Monitoring.
2. Click on "Wireless", then "WAM Receiver". Select the "Documents" tab and click on "Software Download". A Software ID Key will be required to download the software.
3. Select the BA/WAM-L-F software which is the WAM Local, Food Safety Software. Follow the on-screen instructions to complete the installation. When installation is complete, a startup icon (Fig. 2) will be automatically added to your desktop along with other test programs. For the BAPI Wireless Receiver Test Web Software and TCP/IP Software Discover, click on the icon to launch the program.

Specifications subject to change without notice.

C. First-time Software Startup - Follow these steps to get your system up and running

1. Start the computer and be sure the WAM Receiver is powered "On" and connected via USB cable.
2. Click on the program's desktop Startup Icon (Fig. 2) to start the program.
3. The program will initiate a COM port search to find the COM port that the computer assigned to the WAM Receiver's USB connection. If you'd like to change the COM port, click the "Disable COM Port Autodetect" check box and choose another COM port from the dropdown list.
4. The program will open the software Administration Screen and ask for the password. The default password is "admin". Enter "admin" and hit return. The Administration Screen (Fig 3) will appear.



Fig 2:
Startup Icon

5. This is the area to manage the administration data for your system including Location, Foods, Food Sensors, Menus, Other Sensors and Alarms. Each of these items is covered later in the User Guide and does not have to be entered now.

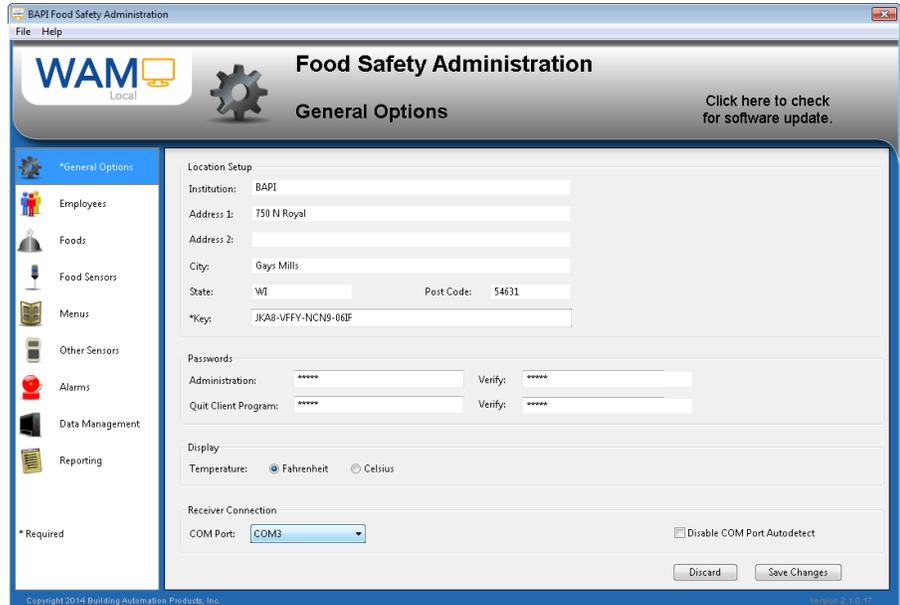


Fig 3: Administration Screen on First-time Program Startup

You must enter the "Software ID Key" into the system to receive data from a Food Sensor or the Administration Screen will again be initialized on startup as though it was a first-time startup.

6. Follow the steps below to enter a Food Sensor into your system and receive data.

Verifying Communication with Food Sensors:

Select a Wireless Food Sensor and activate it.

1. This is done by removing the cover and plastic sleeve and then removing the battery tab (Fig 4).
2. Press the "Training" button and the sensor will begin transmitting.
3. Write a unique number between 1 and 99 on the round Food Disk Label, place it on top of the plastic sleeve.
4. Re-assemble the Food Sensor.
5. Click on "Food Sensors" in the Administration Screen to open the Food Sensors Administration Screen.
6. Click on the "Add" button to open the Add Food Sensor Dialog Box (Fig 5).
7. Enter the Food Sensor Number (the # on the top round label) and then the Serial Number (shown on the plastic sleeve) and click the "OK" button.
8. Close the Administration Screen to view the "Food Sensors" Monitoring Screen (Fig 6).
9. The temperature reading from the sensor you added will appear in the first square button on the screen to verify that you have established communication between the sensor and the software.

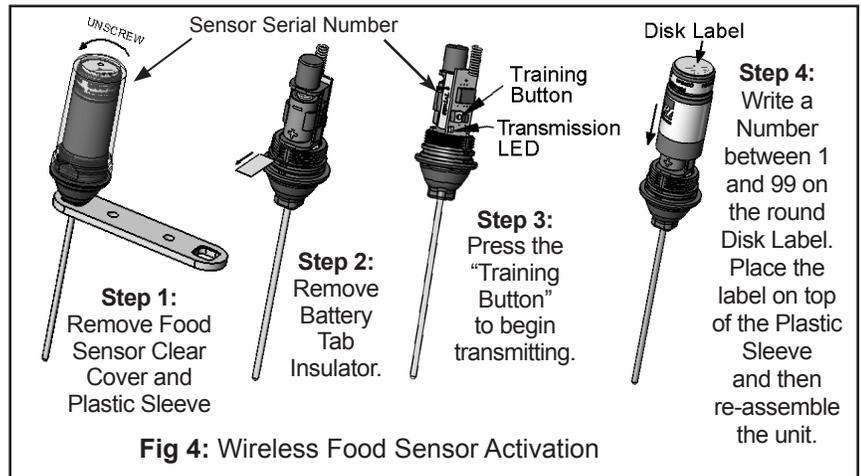


Fig 4: Wireless Food Sensor Activation

Proceed through sections F to L of this document to complete system installation. Then complete the Commissioning and Verification (Sect. O) steps to verify full system operation.

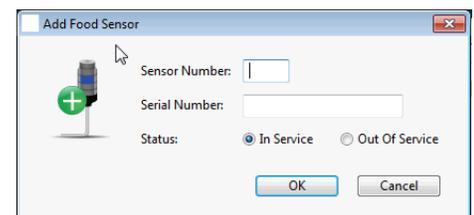


Fig 5:
Add Food Sensor Dialog Box

Specifications subject to change without notice.

D. "Food Sensors" Monitoring Screen Overview (This is the main operational window)

After the First-time Startup, the system will automatically go to the "Food Sensors" Monitoring Screen (Fig 6) when launched. This screen can also be accessed by clicking on the "Food Sensors" tab.

This is the main user screen and it displays only Wireless Food Sensors. The screen consists of 24 buttons with room for information about the foods being monitored. The temperature reading from the sensors is refreshed every 15 seconds. The individual button and screen elements are described in detail below in Fig 6.

Note: The number of buttons can be expanded up to 96. The additional buttons (24 per page) are accessed via an "advance" arrow that only appears when there are more than 24 buttons.



Page Advance:
Click to go to the next page of Food Sensors if there are more than 24 sensors.

Current Menu:
The currently active Menu. The Menu determines which food is associated with each sensor.

Change Menu Button:
Click to switch the active Menu.

Administration Screen Button:
Opens the Administration Application to manage the various elements of your system.

Food:
The food that is being monitored by that sensor. The food associated with each sensor is determined by the Menu.

Sensor Number:
The individual number that the user assigns to each Food Sensor (1 to 99). It should be written on the round label at the top of each food sensor.

Current Temperature:
The most recent temperature reading from the Food Sensor. It can be set to °F or °C in the Administration Screen. The temperature is always updated, even if the sensor is not associated with a food or is in "Out of Service" status.

Green indicates that the temperature is within the customer specified temperature range limits.

Blue indicates that the temperature is below the low temperature range limit.

Red indicates that the temperature is above the high temperature range limit.

Black indicates that the sensor is in "Out of Service" status.

Yellow indicates that the sensor went into alarm and is now in a snooze mode. The minutes left in the snooze are shown on the right. (For more info on snooze, see the Alarms section.)

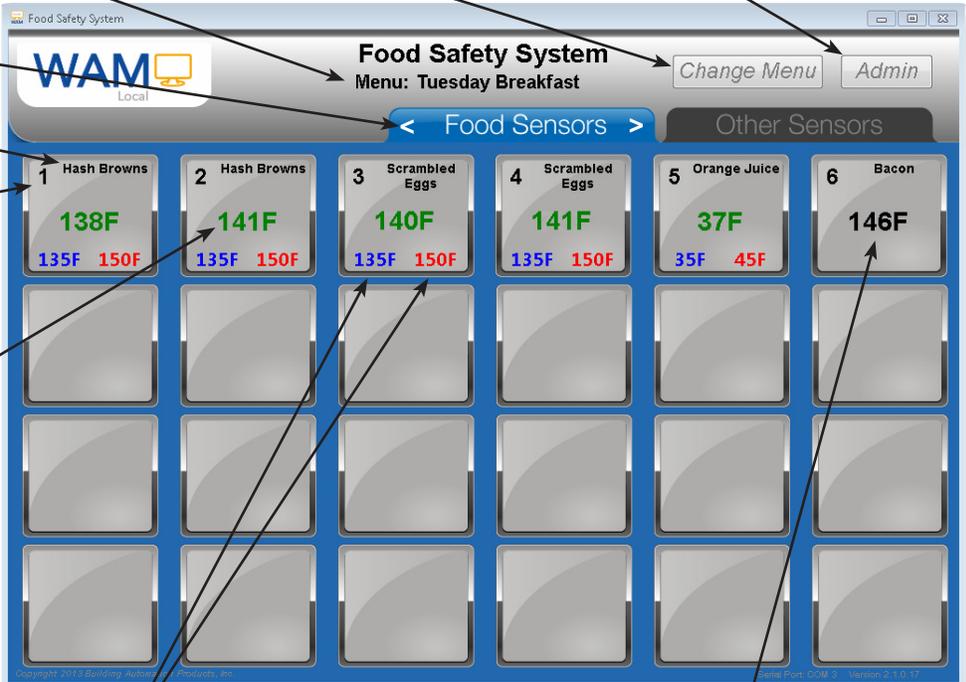


Fig 6: Food Sensors Monitoring Screen

Temperature Range Limits:
The high and low temperature range limits for the food. The low is shown in blue and the high in red.

If the alarm status is "On" as set in the Administration Alarms Screen and the temperature reading goes above or below this range, an alarm will be activated. Based on your alarm settings, this can trigger an audible alarm, an email or a text message.

Clicking the Sensor Button:

Single-Click: Single-clicking a button temporarily removes the alarm limits association with a food. The sensor will continue to display its temperature reading (in black numbers) but there is no longer a temperature range limit so it will not go into a temperature range alarm.

Double-Click: Double-clicking a button allows the user to change the food associated with that sensor.

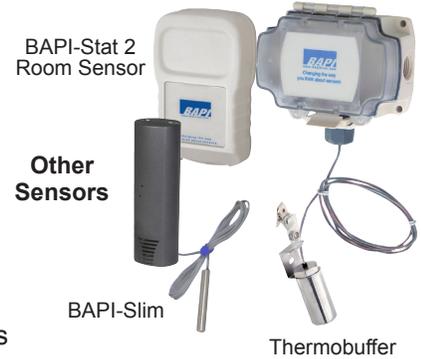
Note: Switching the food/sensor association via the button also switches the food/sensor association in the currently active Menu.



E. "Other Sensors" Monitoring Screen Overview

Clicking the "Other Sensors" tab opens the "Other Sensors" Monitoring Screen. This area displays information about all the sensors in your system that are not Wireless Food Sensors. Examples of monitored items or locations include freezers and coolers, rooms, ducts, water tanks, wine cellars and many more.

The window consists of 24 buttons that display information about the locations being monitored. The temperature readings from the sensors are refreshed every 15 seconds. The individual button and screen elements are described in detail below.



Location/Application:
Describes where the sensor is located.

Food Sensors Tab:
Opens the Food Sensors Monitoring Screen described on the previous page.

Administration Screen Button:
Opens the Administration Screen where you can manage the various elements of your system.

Current Temperature:

The most recent temperature reading from the sensor. It can be set to °F or °C in the Administration Screen and is always updated, even when the sensor is in "Out of Service" status or during "Alarm Pause" mode.

Green indicates that the temperature is within the temperature range limits.

Blue indicates that the temperature is below the low temperature range limit.

Red indicates that the temperature is above the high range limit.

Black indicates that the sensor is in "Out of Service" status or "Alarm Pause" mode.

Yellow indicates that the sensor went into alarm and is now in a snooze mode. The minutes left in the snooze are shown on the right. (For more info on snooze, see the Alarms section.)

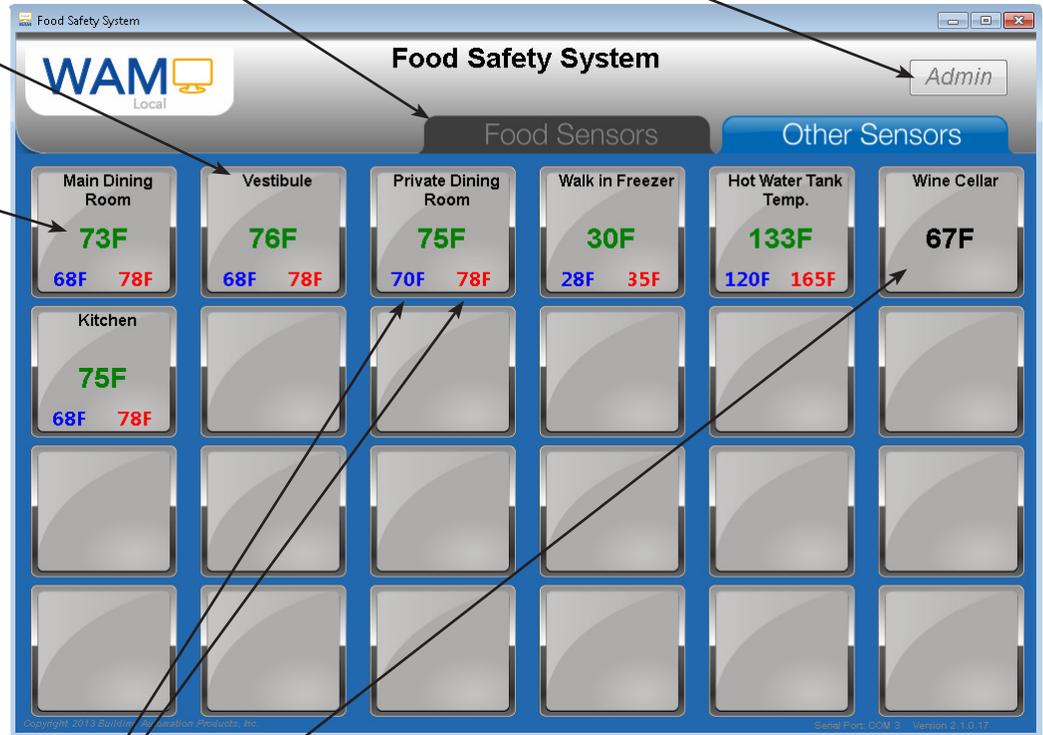
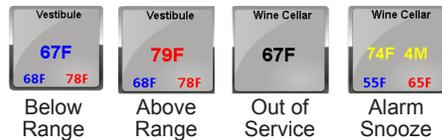


Fig 7: "Other Sensors" Monitoring Screen



Temperature Range:

The high and low temperature range limits for the application. The low temperature is shown in blue and the high temperature in red.

If the alarm status is "On" as set in the Administration Alarms Screen and the temperature reading goes above or below this range limit, an alarm will be activated. Based on the alarm settings, this can trigger an audible alarm, an email or a text message.

Single Click "Alarm Pause" Mode - Single clicking on an "Other Sensor" Button places the sensor into "Alarm Pause" (on hold) mode as indicated by a black temperature value and the temperature range limits being removed from the button. This allows the user to temporarily pause a single point from alarming while the rest of the sensors continue operating normally.

Another click takes the sensor out of "Alarm Pause" mode. The temperature value goes back to green, red or blue and the temperature range limits are returned to the bottom of the button on the next reception.

Note: All "Alarm Paused" sensors return to normal operation after any Administration Screen update. "Out of Service" sensors remain "Out of Service" after an Administration Screen update.

Specifications subject to change without notice.

F. General Options Administration Screen

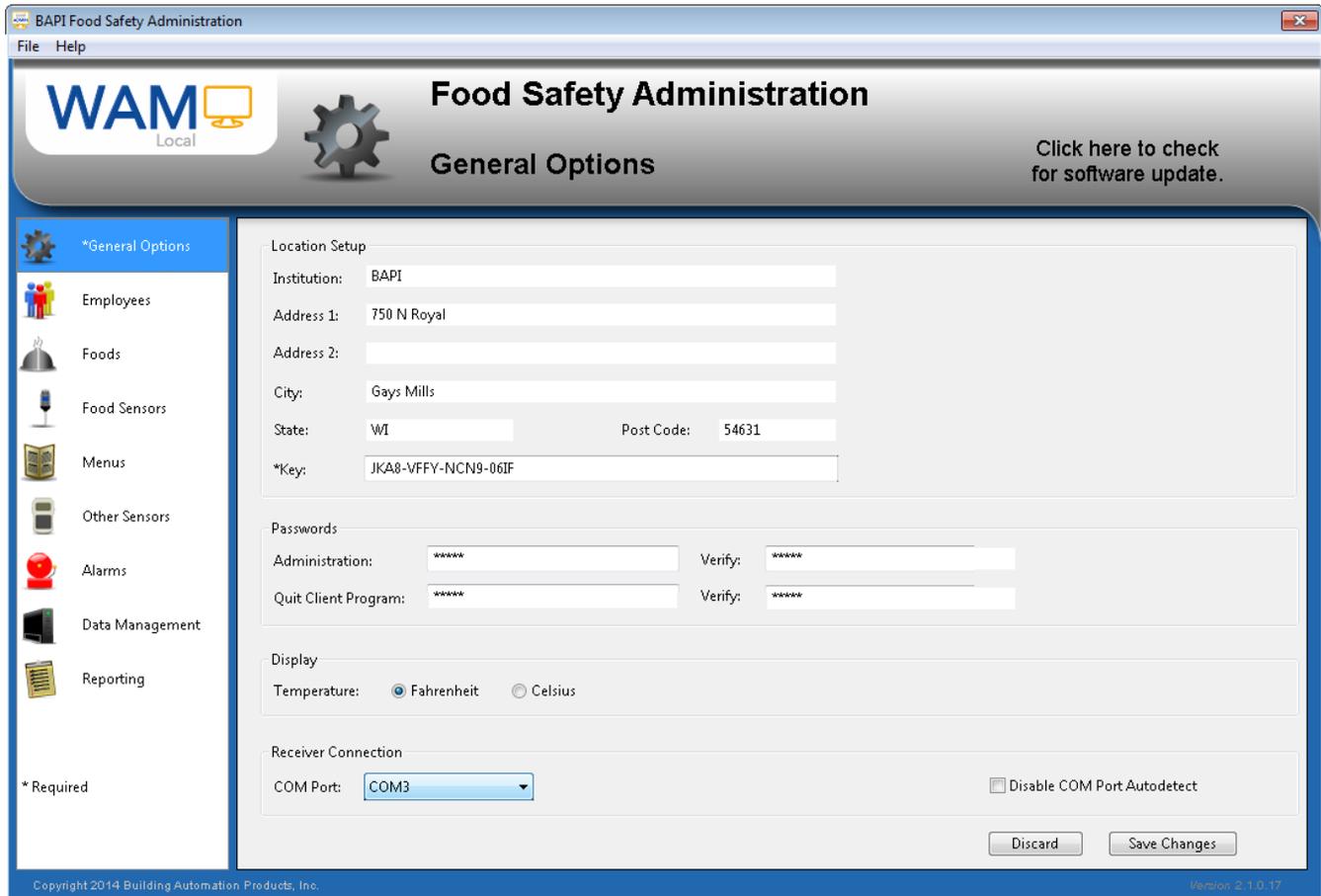


Fig 8: General Options Administration Screen

GENERAL OPTIONS ADMINISTRATION SCREEN

Click on the “Admin” Button on the “Food Sensors” or “Other Sensors” Monitoring Screens to access the Administration Screen. Enter “admin” for the password (or enter the password that you created). The Administration Screen lets the user change and configure settings for the system. On the left are the Administration categories that can be selected. The Administration Screen always opens to the General Options category.

General Options:

These include location, key, passwords, °F or °C display and receiver connection.

Location:

The address and city allow 54 characters each while the state allows 16 characters and postal code 13.

Key:

Enter the 16 digit Key number that you received from BAPI customer service or when you downloaded the software.

Passwords:

Passwords can be up to 25 Alpha or Numeric characters, no spaces or special characters. Type in the new Administration password you would like to use or the new Quit Client Program password you would like to use. Both of these passwords are set to “admin” by default.

Display:

Choose the units of measure for temperature, either Fahrenheit or Celsius. The system is set to Fahrenheit by default.

Receiver Connection:

This is a pull-down menu of all the active COM ports on the computer. When “Autodetect” is enabled, the software selects the first COM port where the WAM receiver is detected. If you’d like to change the COM port, click the “Disable COM Port Autodetect” check box and choose another COM port from the dropdown list.

Specifications subject to change without notice.

G. Employees Administration Screen



Fig 9: Employees Administration Screen

EMPLOYEES ADMINISTRATION SCREEN

This screen allows you to add and manage the employees who are using the system. An active employee has authority to acknowledge alarms by typing in the action taken or selecting a “Standard Alarm Response” from a list of pre-entered responses. At least one active employee must be in the system. One active employee is automatically entered as “Employee 1” and can be changed at any time.

The **Add**, **Edit** and **Delete** buttons allow the user to make changes to the Employees List.

The Employees List can also be **Exported** to a text file or **Printed** with the buttons at the bottom.

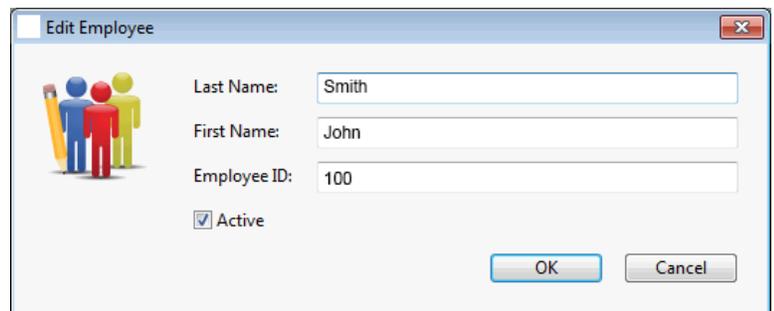


Fig 10: Edit Employee Dialog Box

H. Foods Administration Screen

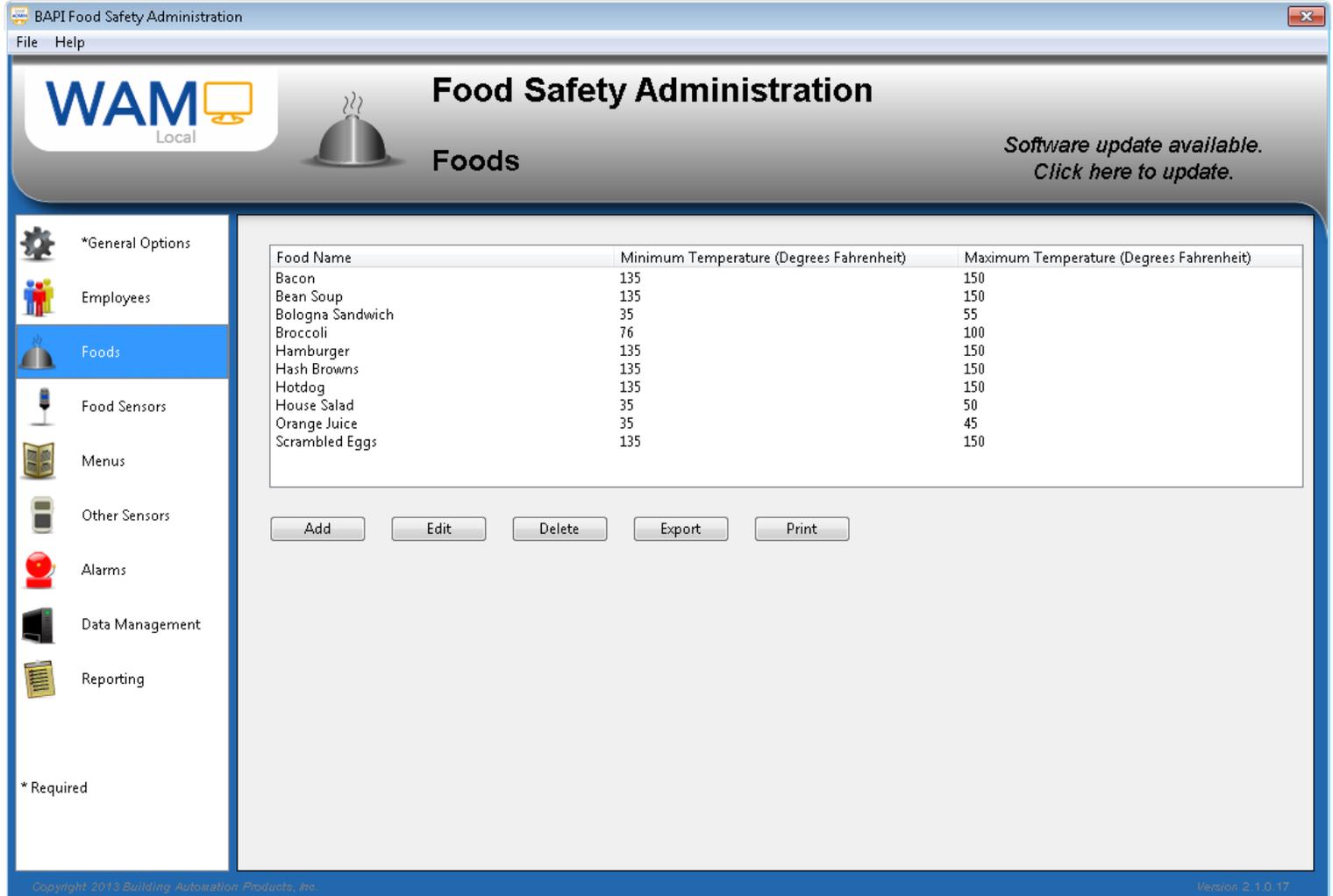


Fig 11: Foods - Administration Screen

FOODS ADMINISTRATION SCREEN

Use this screen to add and manage the Foods that will be monitored. Each Food must have a Minimum and Maximum Temperature Value. Only Foods that are on the Foods List can be used when creating menus.

The minimum temperature cannot be lower than -40°F (-40°C). The maximum temperature cannot be higher than 230°F (110°C).

The **Add**, **Edit** and **Delete** buttons are used to manage the Foods List or change the minimum and maximum temperature values for a food.

The Foods List can be **Exported** to a text file or **Printed** with the buttons at the bottom.

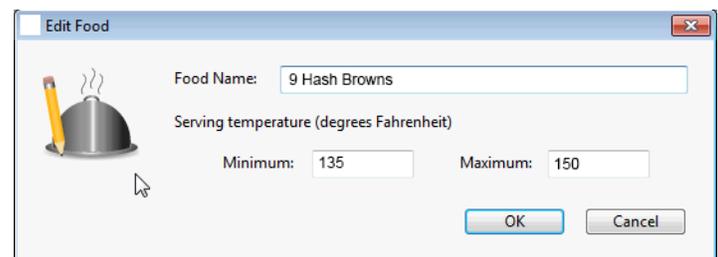


Fig 12: Edit Food Dialog Box

I. Food Sensors Administration Screen



Fig 13: Foods Sensors Administration Screen

FOOD SENSORS ADMINISTRATION SCREEN

This screen allows you to add and manage the wireless sensors used on the Food Monitoring Screen. All wireless temperature sensors can be added to the Food Monitoring Screen. Sensors assigned to the Food Monitoring Screen cannot be seen on the “Other Sensor” Monitoring Screen.

The **Add**, **Edit** and **Delete** buttons are used to manage the Food Sensors List (Fig 13). Each sensor must include a sensor number (the number that the user wrote on the top of the round label) and the serial number (shown at the top of the sensor’s plastic sleeve and visible through the clear cover).

The Food Sensors List can be **Exported** to a text file or **Printed** with the buttons at the bottom.

“IN SERVICE” AND “OUT OF SERVICE” STATUS

The status of a Food Sensor is either “In Service” or “Out of Service”. The temperature of an “Out of Service” Food Sensor is displayed on the monitoring screen in black (if transmitting), but alarms are disabled and the associated food and temperature range are not shown. Sensors without batteries should be placed “Out of Service” to prevent a “Loss of Communication” alarm. (For more info on alarms, see the Alarms Section on pg 9)

The “Status Change” radio button on the Food Sensor Administration Screen allows the user to change the status of **ALL** the Food Sensors to “In Service” or “Out of Service”. To change the status of **Individual Sensors**, highlight the sensor on the Sensor List and click the “Edit” button. Select “In Service” or “Out Of Service” with the radio button on the Edit Food Sensor Dialog Box (Fig 14).

REPLACE SENSOR

The “Replace Sensor” section provides a quick way to swap one Food Sensor for another in all the Menus. This would typically be done when a sensor is removed for cleaning or calibration and repair. To replace a sensor, select it from the “Change sensor” dropdown on the left and replace it with a sensor from the dropdown on the right, which is a list of all Food Sensors not currently in use in a menu.

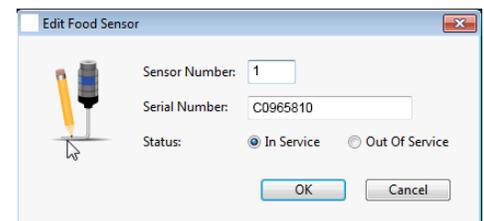


Fig 14: Edit Food Sensor Dialog Box

Specifications subject to change without notice.

J. Menu Administration Screen

MENUS ADMINISTRATION SCREEN

Menus are lists of foods and the sensors assigned to those foods. Menus speed up the process of assigning sensors to foods, especially if food offerings are repeated at regular intervals.

The Menu Administration Screen (Fig 15) shows the Menu List at the top, and when a menu is highlighted, it shows the associated foods and sensors in the Menu Details list at the bottom.

CUSTOM MENU

The program always opens to the Custom Menu which cannot be edited or deleted. The Custom Menu displays all the food sensors without any associated foods. The user can create the food associations by clicking on each button on the monitoring screen and selecting a food.

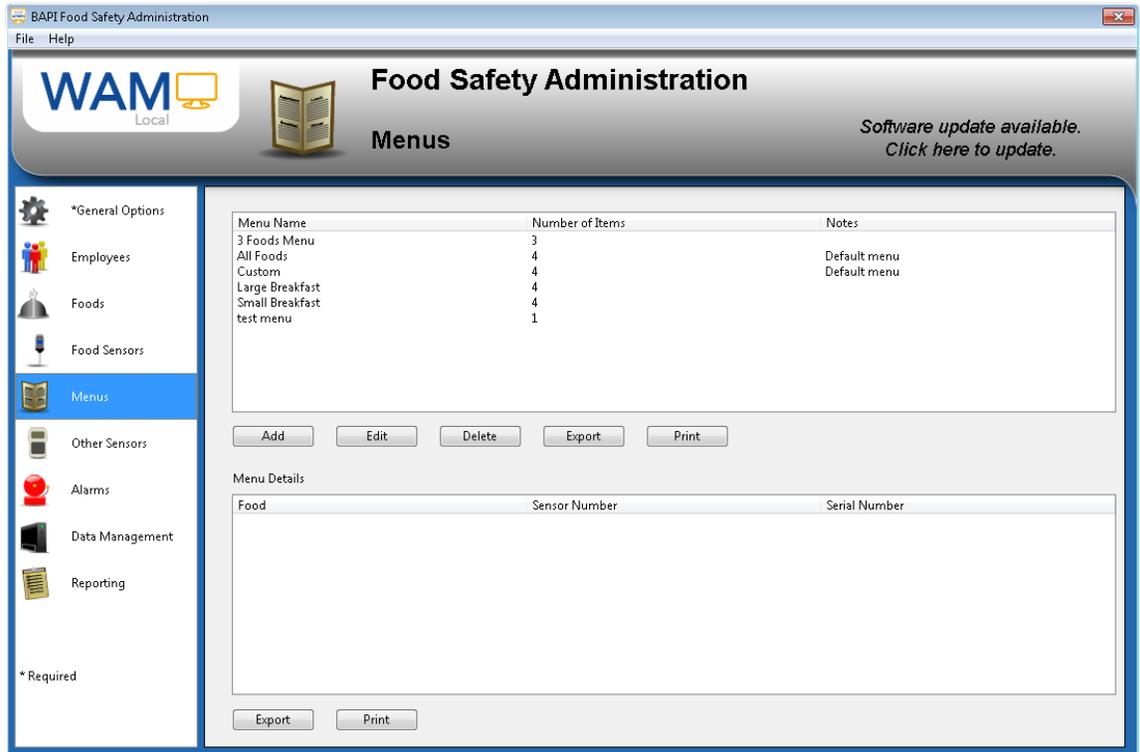


Fig 15: Menu Administration Screen

ADD MENU

Click the "Add" button to open the Add Menu Screen (Fig 16). "Available Foods and Sensors" that can be added to the menu are shown in boxes on the right. Click on a food in the top box and a sensor in the bottom box. Then click the "Add From Selection" button to add the food/sensor pair. Repeat this process for additional foods and sensors. Name the new menu, add any relevant notes and then click "OK" to create the new menu. If you are unable to find the food or sensor that you're looking for, be sure they were added as described in sections H & I above.

EDIT MENU

To change a Menu, highlight the Menu then click the "Edit" button. This opens the Edit Menu Screen which is similar to the Add Menu Screen. Highlight an available Food and Sensor and click the "Add From Selection" button to add it.

To Delete an existing food/sensor pair from the menu, click on that pair in the center box and then click the "Delete" button. The food/sensor pair is removed from the menu and the sensor appears on the list of available sensors on the right.

To Change an existing food/sensor pair on the menu, click on that pair in the center box. Then select a new food from the available foods list and/or a new sensor from the available sensors list. Click the "Change Using Selection" button to implement the change. (Note the "Change Using Selection" button can be used to change just the food or just the sensor, or both.) If you are unable to find the food or sensor that you're looking for, be sure they were added as described in sections H & I above.

EXPORT OR PRINT

The Menu List and Menu Details List can be **Exported** to a text file or **Printed** with the buttons below each list.

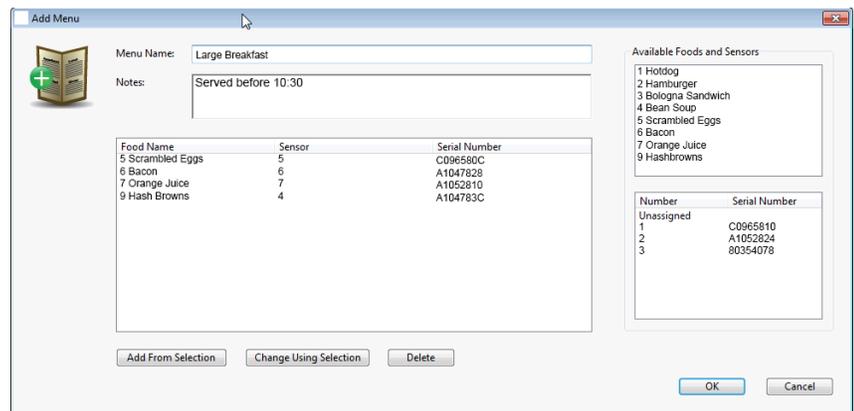


Fig 16: Add Menu Screen

K. "Other Sensors" Administration Screen

OTHER SENSORS ADMINISTRATION SCREEN

The "Other Sensors" Administration Screen is used to enter and manage all wireless temperature sensors that are in the "Other Sensors Monitoring Screen". "Other Sensors" can be for rooms, refrigerators, freezers, ducts, hot water tanks and many other areas. These sensors appear in the "Other Sensors" Monitoring Screen or in the Food Sensors Monitoring Screen but not both at the same time.

"Other Sensors" can be added, removed or edited from the "Other Sensors" list using the **Add, Edit and Delete** buttons at the bottom of the list.

Each sensor must include a Location, Serial Number and Minimum and Maximum Temperature Range Value. The Serial Number is the ID number located inside the sensor. It is a number with alpha/numeric characters with no spaces. Most serial numbers have 8 digits.

The "Other Sensors" List can also be **Exported** to a text file or **Printed** using the buttons below the list.

"IN SERVICE" AND "OUT OF SERVICE" STATUS

The status of an "Other Sensor" can be either "In Service" or "Out of Service". "Out of Service" sensors are displayed on the monitoring screen but the temperature reading is in black and alarms are disabled. Sensors without batteries should be placed "Out of Service" to prevent a "Loss of Communication" alarm. (For more info on alarms, see the Alarms Section on pg 12)

STATUS CHANGE

The Status Change radio button on the "Other Sensor" Administration Screen lets the user change the status of **ALL** the "Other Sensors" to "In Service" or "Out of Service". To change the status of **Individual Sensors**, highlight the sensor on the list, click the "Edit" button and select "In Service" or "Out Of Service" with the radio button on the Edit "Other Sensor" Dialog Box (Fig 18). The minimum alarm limit is -40 °F or °C and the maximum alarm limit is 185 °F or °C.



Fig 17: "Other Sensors" Administration Screen

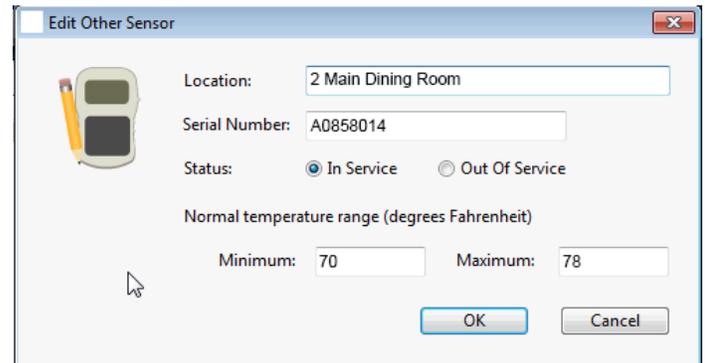


Fig 18: Edit "Other Sensor" Dialog Box

Specifications subject to change without notice.

L. Alarms Administration Screen

ALARMS ADMINISTRATION SCREEN

This screen sets the properties of the Audible and Email Alarms that occur when a sensor is out of range or when no reading has been received from the sensor. These properties apply to both Food Sensors and “Other Sensors”. The properties include Alarm Status, Alarm Types, Delay Settings, Audible Alarm, Email Alarm and Standard Alarm Responses. Each section can be changed or left in the default state.

ALARM STATUS & ALARM TYPES

All alarms can be turned on or off with the Alarm Status radio button, or the individual Email or Audible alarms can be turned on or off with the Alarm Types checkboxes.

ALARM DELAY

The first alarm delay sets the number of minutes that must pass without a signal being received from a sensor before a “reception lost” alarm is generated. The field can be set from 0 to 99 minutes with a default of 1 minute. BAPI recommends a setting of 5 minutes or higher since transmissions are interrupted occasionally by people or other objects being between the sensor and the receiver. Note: A setting of “0” results in an alarm delay of one minute, the same as setting the value to “1”.

The second alarm delay sets the number of minutes the system will wait to generate a temperature limit alarm. The field can be set from 0 to 99 with a default of 1 minute. Note: Setting the value to “0” results in a 1 minute delay, the same as setting the value to “1”.

AUDIBLE ALARM SOUND FILE

To customize the audible alarm, choose a sound file from your computer. Click the “Choose” button and then navigate to a sound file on your computer. Once you’ve chosen the file, the path to the file is displayed in the “Sound File” field.

A “Test Alarm Sound” button is provided to help with the selection of the sound file.

EMAIL ALARM

This is the area to enter the information needed to send an email or text alarm message. BAPI recommends that you contact your IT person to help with the technical information required in this section.

Email Server: The name of the server from which your computer has been set up to send emails.

User Name: The name of the user on the email account.

Password: The password for the email account that is set up for the above User Name.

Verify Password: Retype the password entered in the section above. It must be identical.

Email From: The email address that the alarm email will come from. **Note:** It does not have to be the same as the email address for the email account on your computer.

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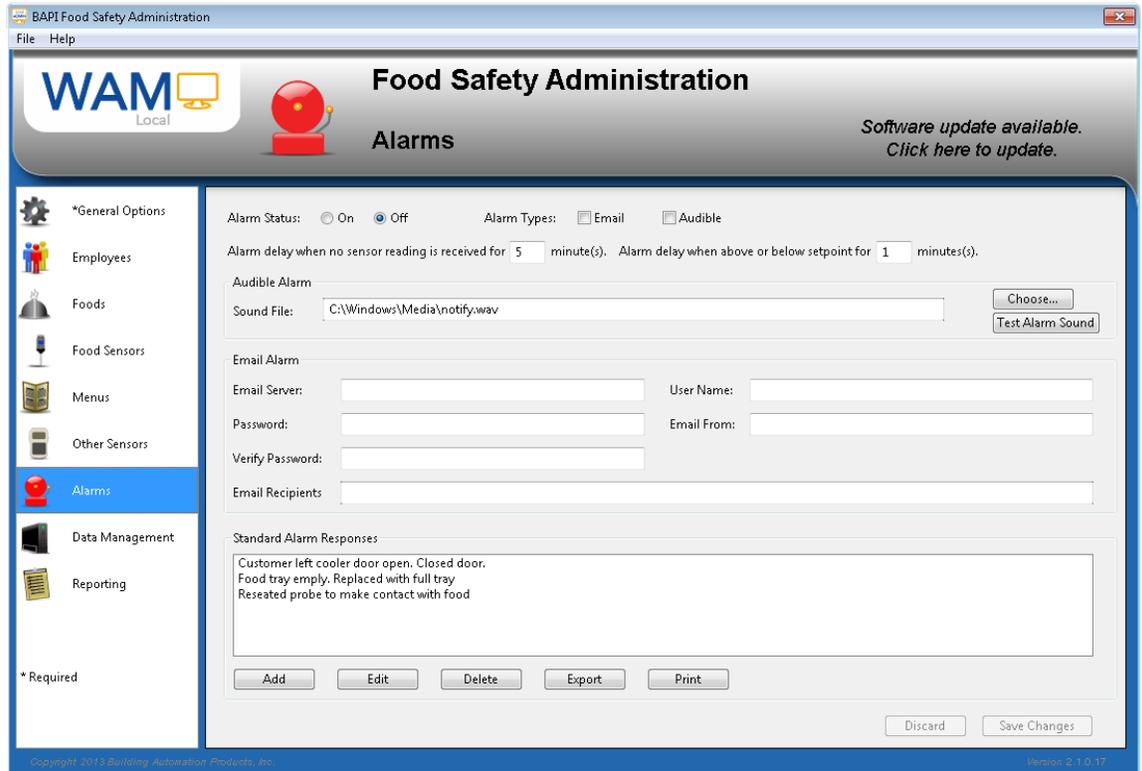


Fig 19: Alarms Administration Screen

L. Alarms Administration Screen continued....

Recipient List: The email address(es) the alarm email will be sent to. Type in the email address(es). **Note:** A email can sent to multiple addresses if you follow the formatting of your email program to do so. See your email program for more details. Text messages can also be sent via most cell phone carriers by sending the email to a special email address.

STANDARD ALARM RESPONSES

Use the Add, Edit and Delete buttons to manage this list of standard responses from which a user can select when responding to an alarm. The list appears as a dropdown on the Temperature Alarm Popup along with a dropdown of the Responding Employees. The Responding Employee must be selected via the dropdown but the Response can be selected via the dropdown or typed into the field.

TEMPERATURE ALARM POPUP

When a sensor goes into alarm, a Temperature Alarm Popup screen appears (Fig 20). This screen has a colored bar that shows the temperature range and the reading that caused the alarm.

To close the Alarm Popup, a Responding Employee must be selected from the dropdown list of employees, and a Response must be entered in the "Response" field. A Response can be selected from the dropdown list of Responses (described in the "Standard Alarm Responses" section above) or a custom response can be typed into the field.

The alarm can also be put into "Snooze" mode for up to 4 hours with the drop down list or by manually entering the minutes into the field. This can be used to prevent additional alarms after a problem has been corrected while waiting for the food or location to come back into its normal operating range.

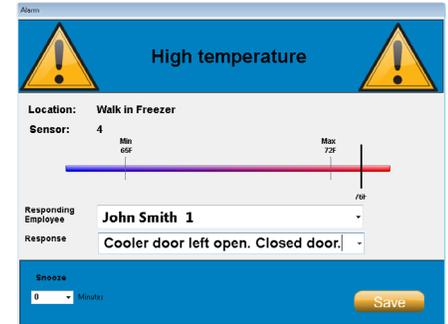


Fig 20: Temperature Alarm Popup

M. Data Management Administration Screen

DATA MANAGEMENT ADMINISTRATION SCREEN

The Data Management window lets you create an archive file of your data for future reference. The archive files are listed at the top of the Data Management window along with the date range and the number of records in the file. The archive files include Food Sensor readings, Other Sensor readings, and Alarm Response readings.

ARCHIVE SENSOR READING DATA

The "Food Sensor" and "Other Sensor" data can be saved into a single archive file or individual files by clicking on the appropriate checkboxes. Select all the sensor data or choose a specific date range with the radio buttons and date fields. After making your selections, use the "Choose" button to navigate to the database

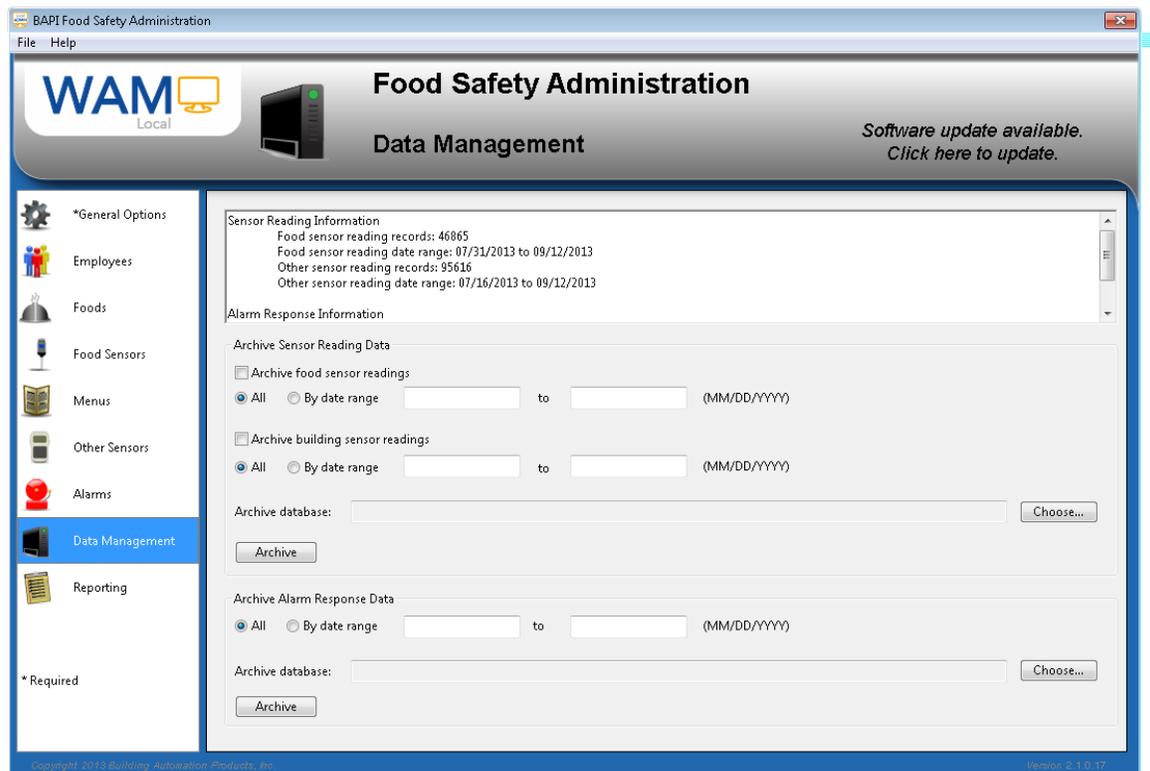


Fig 21: Data Management Administration Screen

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Specifications subject to change without notice.

M. Data Management Administration Screen

location on your hard drive. Click on an existing database file to update that file or create a new file by typing a new file name. Click the “Archive” button to start the process. A window will open showing the status.

The length of this process will vary based on how much data is being added. The user can choose to stop the process by clicking the “Stop” button. When the process is complete, click the “Done” button. Once a file is created, it will appear in the “Archive database” field. You can then click “Archive” to add the data to that file.

ARCHIVE ALARM RESPONSE DATA

Alarm data can be archived separately into another database file using the “Archive Alarm Response Data” fields at the bottom. All of the alarm data can be archived at once or a specific date range can be specified. Use the “Choose” button to navigate to the database location on your hard drive. Click on an existing database file to update that file or create a new file by typing a new file name. Click the “Archive” button to start the process. A window will open showing the status. Once the file is created, it will appear in the “Archive database” field. You can then click archive to add the data to that file.

N. Reporting Administration Screen



Fig 22: Reporting Administration Screen

REPORTING ADMINISTRATION SCREEN

The Reporting screen lets the user view, export or print report data from the sensors. The reports can be customized by choosing the type of sensor, the type of data (sensor readings or alarm responses) and specific sensors or all sensors.

Date and Time Range Report

A report created using the “Date and Time Range” includes **ALL** the readings within that date and time range. This is an easy way to determine the exact time that a specific sensor started to go out of range.

Standard Reports

A report created using the “Standard Reports” fields doesn’t include all readings. It includes only the readings taken every 15, 30 or 60 minutes depending on the interval selected in the “Reporting interval”. This report is typically used as part of a food safety or HACCP plan.

After choosing the type of data and report, click “View” to view the report on the display screen, click “Export” to create a text file and save it to your computer or click “Print” to send the report to your printer.

Specifications subject to change without notice.



O. Commissioning and Verification

After activating all the sensors and entering all the administration data into your system, complete these steps to verify that the system is operating properly.

- 1. Go to the Alarms Administration Screen and turn all alarms OFF so that no alarms will be activated during testing.
2. Place all Food Sensors and Other Sensors into "In Service" mode using the Food Sensor and Other Sensor Administration Screens.
3. Put each Food Sensor and Other Sensor at a known temperature within the normal operational limits and compare the reading to a high accuracy reference meter.
4. Go to the Alarms Administration Screen and turn all alarms ON. Put each Food Sensor and Other Sensor into an environment that is outside of the temperature range limit for that sensor.

P. General Specifications

COMPUTER SYSTEM REQUIREMENTS

Loading Media: BAPI website download or CD on request

Updates: All updates are downloaded from our website

Memory Requirements:

Table with 2 columns: Component, Requirement. Rows: Memory/read (100 MB), Hard drive (40 GB), RAM (500 MB)

System Requirements:

Table with 2 columns: Component, Requirement. Rows: Computer (Any PC Computer made in the last 2 years), Operating system (Windows 7 Professional/Home or later), Display (VGA output), I/O Ports (USB for WAM Wireless Receiver connection...)

Loading CD drive (CDR or thumbdrive recommended for archiving)

Table with 2 columns: Component, Requirement. Rows: Wireless Receiver (1 WAM Receiver per Food Safety System), Printer (Recommended), Internet connection (Recommended)

Wireless Equipment Required:

Table with 2 columns: Equipment, Description. Rows: BA/RCV-418-WAM (BAPI WAM Receiver), BA/WFP-x (BAPI Wireless Food Probe Sensors), BA/BS2-WT (BAPI Wireless Room Sensors), BA/WT-x (BAPI Wireless Building Sensors)

SOFTWARE SPECIFICATIONS

General Software Specifications:

Table with 2 columns: Specification, Value. Rows: Alarm Limit Differential (0.001), Lost Comm. Alarm Delay (1 to 99 min., (0 = 1 min delay)), Temp Limit Alarm Delay (1 to 99 min., (0 = 1 min delay)), Types of Alarm Alerts (Visual, Email or Audible)

Monitoring Window Buttons:

Table with 2 columns: Button Type, Frequency/Details. Rows: Food Sensor Buttons (96, 24 per page), Other Sensor Buttons (24, one page), Food Button Info (Value, High/Low Limits, Food), Building Button Info (Value, High/Low Limits, Application), Monitoring Screen Update (Every 15 seconds)

SOFTWARE SPECIFICATIONS continued...

Definable Information Limits:

Table with 2 columns: Limit, Value. Rows: # of Foods (Unlimited by Database), # of Menus (19 plus the "Custom" Menu), # of Employees (Unlimited by Database), # of Food Sensors (96), # of Other Sensors (24), # of Alarm Responses (Unlimited by Database)

Database Management:

Table with 2 columns: Management Type, Location/Details. Rows: Archiving Information (Food Sensors by date & time, Other Sensors by date & time, Alarm Responses by date & time), Archiving location (To hard drive, thumb drive or writable CD)

Report Generation:

Table with 2 columns: Report Type, Details. Rows: By Sensor type (Food sensors or Building sensors), By Subject (Alarm response or Sensor reading), By Time Range (Select specific date & times), By Interval Time (Select daily, weekly, or monthly at 15, 30, 60 min or custom intervals)

Other Available reports:

Table with 2 columns: Report Name, Action. Rows: Employee list (Save to disk or printer), Foods List (Save to disk or printer), Food Sensors List (Save to disk or printer), Food Menus List (Save to disk or printer), Foods in Specific Menu (Save to disk or printer), Building Sensors List (Save to disk or printer)

Support:

US based in Wisconsin, CST
Web: www.bapihvac.com
Phone: +1-608-735-4800

Warranty:

There is no guarantee for the use of this software in terms of its current version, accuracy, reliability, correctness or error-free operation since dependence on hardware and operating system heavily influence operation. Regular updates are planned for feature enhancement.

Specifications subject to change without notice.

Wireless Asset Monitoring - Local Food Safety Software



Building Automation Products, Inc.,
750 North Royal Avenue, Gays Mills, WI 54631 USA
Tel: +1-608-735-4800 • Fax: +1-608-735-4804 •
Email: sales@bapihvac.com • Web: www.bapihvac.com