



HOT•N•COLD™

MULTI-ZONE TEMPERATURE
DATA MONITORING SYSTEM

Cold Temperature Manual

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Rev. 5

Introduction

Welcome to the Hot-N-Cold Multi-Zone Temperature Data Monitoring System

This system is designed to read and log temperatures in hot or cold environments 24 hours a day, 7 days a week. The **HOT-N-COLD Multi-Zone Temperature Data Monitoring** can operate over a range of temperatures from -67° to 257° Fahrenheit (-55° to 125° Celsius) in one or more coolers, chillers and/or freezers. With the addition of the **Smoke House Cook Cycle Monitor** temperatures up to 475° Fahrenheit (245° Celsius) can be recorded.

The **HOT-N-COLD Multi-Zone Temperature Data Monitoring** is ideal for businesses which are required to monitor and record temperatures for product quality assurance. The **HOT-N-COLD Multi-Zone Temperature Data Monitoring** can simultaneously monitor & record up to 20 different zones. Each recorded zone can be set to different upper and lower alarm limits. The computer will produce an audible and visual alarm if the temperature in any zone goes outside the set limits. The **Enhanced** software is an extra feature. Please contact your supplier for an upgrade which would allow for remote call out alarm systems.

Warning

*The program was designed to enhance your current temperature data logging system. The **HOT-N-COLD Multi-Zone Temperature Data Monitoring** software which allows for remote alarm notification should not be used as your only source of equipment failure notification. Should the **Hot-N-Cold Multi-Zone Temperature Data Monitoring** system fail for any reason, you must return to manually recording temperatures in all your zones until repairs have been completed.*

Temperature Sensor Installation

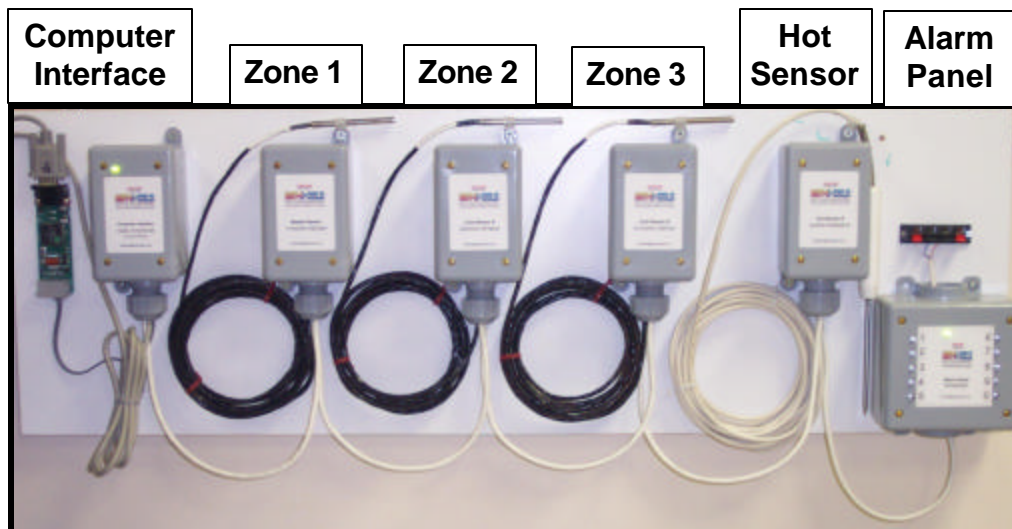
Installing the Temperature Sensors:

The package you received has two water resistant plastic electrical boxes. Find the box labeled 'Computer Interface' on the face plate. Mount this box beside your computer. The telephone style connector plugs into either jack of the **HOT-N-COLD Interface** displayed below/. The other end of the **HOT-N-COLD Interface** is connected with the 9 pin serial cable supplied into the serial port on the back of your computer. For each monitoring Zone mount one of the remaining boxes outside of the freezer, chiller, cooler, display counter etc.



Using category 5, 5E or 6 networking cable (not supplied), make a single and continuous run from the "Computer Interface" box to each of the zones. Run from one box to the next, and then on to the next, until the cable is at the last box. Leave enough slack in the cable at each box to do some wiring (approx. 6" to 10"). Once you have reached the last box you may cut the cable, leaving a couple of feet extra, just in case.

*****Be sure to mount the box labeled MASTER, since it contains the master temperature sensor and is required for the system to function.*****



Hot-N-COLD Multi-Zone Temperature Data Monitoring System
Including 3 Cold Sensors, 1 Hot Sensor, and a 10 zone alarm panel

Install the cable at each box using the following procedures:.

- 1) Remove the cover plate from the box and you will see the temperature sensor (Fig. 1) pre-wired to a terminal strip.

Fig. 1

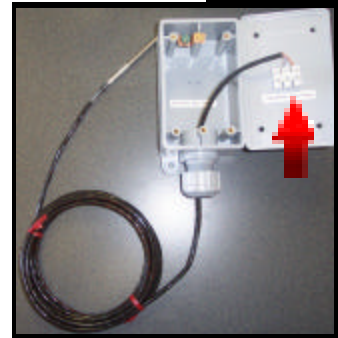
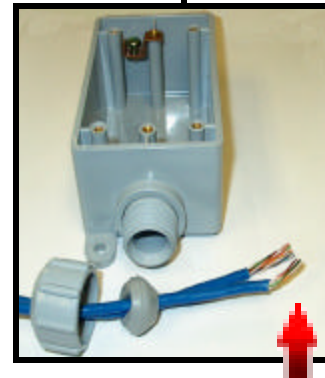


Fig. 2



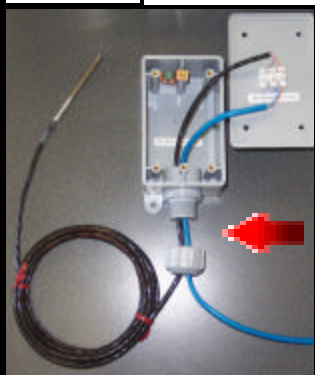
- 2) Loosen the plastic nut and rubber compression fitting on the box (Fig. 2).

Fig. 3



- 3) Cut the cable as shown in (Fig. 3). Remove the outer covering back 1" from the end of the cable. Cut off all the exposed wires except the Blue, Blue-White and Orange.

Fig. 4



- 4) Pass the wires through the plastic nut into the box leaving the compression nut loose at this time (Fig. 4).

Fig. 5



- 5) Bare about ¼ inch of insulation on each of the Blue, Blue-White & Orange wires, from each cable (Fig. 5).

6) Loosen the screws on the side of the terminal block opposite the sensor wires. Match the colors and connect the wires to the terminal block. If this is the last box on the line then there will only be one wire on each post, otherwise there will be two or more wires at each terminal. (Fig. 6).

Fig. 6

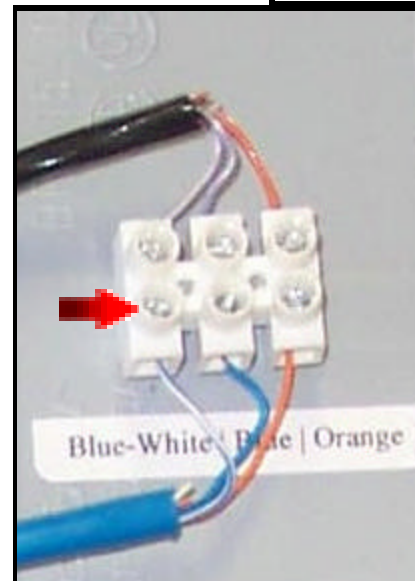
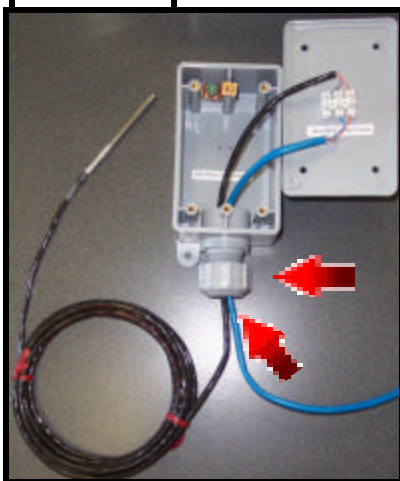


Fig. 7



7) Tighten the plastic nut which will compress the rubber fitting and hold the cable securely (Fig. 7).

If the box might be sprayed with water be sure to squirt a little silicon caulk into the plastic nut to ensure a water tight seal.

Fig. 8

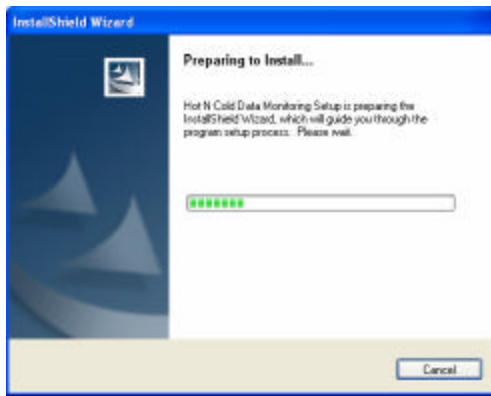
8) Re-attach the cover plate to the box, Repeat these steps with all the Temperature Sensors in all the zones (Fig. 8).



Software Installation

After the sensor boxes are installed and the Computer and Hot-N-Cold Interfaces are connected it is time to install the software. Insert the **HOT-N-COLD Multi-Zone Temperature Data Monitoring** CD into the CD Rom. The installation should begin automatically, if not then you must start it manually by clicking on **Start** and **Run**. In the text box type in **X:\Setup** where **X** is the drive letter corresponding to the CD Rom Drive.

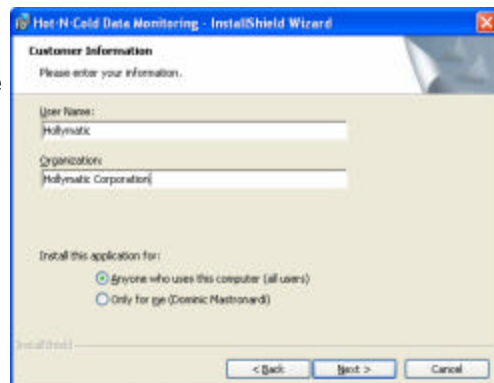
Once executed the following screens will appear. The user must accept the Welcome introduction by clicking on the next button.



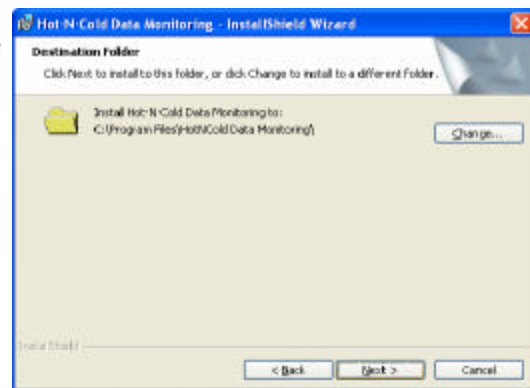
Please read the License agreement and select “I accept the terms in the license agreement” if you fully understand and agree with the terms and conditions.



Enter the user name and company in the appropriate fields. It is recommended that you check off the “Anyone who uses this computer (all users)” option, so that the program will be available to all users on this PC.



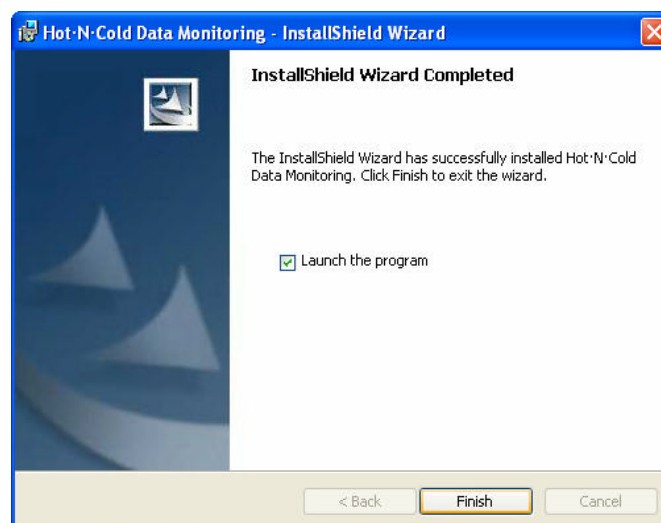
It is always recommended that you select the default location and click on next.



If you are satisfied with your selections then click the **Install** button, then all programs and data will be installed on your computer.



When the program installation is completed, the following dialog box should appear. Click on Finish to complete.



Product Key Registration

When you first execute the **HOT-N-COLD Multi-Temperature Data Monitoring** program a window will appear asking for the **Product Key**. The Product Key can be found on the Computer Interface box.

*****The Product Key refers to the Master Sensor. You must have installed the Master Sensor in order for the program to function! *****



Master Sensor Replacement

If something were to happen to the Master Sensor, you must contact your supplier for a replacement along with a new **Product Key**.

Once you have received your new sensor interface box, replace the defective unit with the new one. Start up the **Hot-N-COLD Multi-Temperature Data Monitoring System**, enter in the new **Product Key** and the program will continue from where it left off.

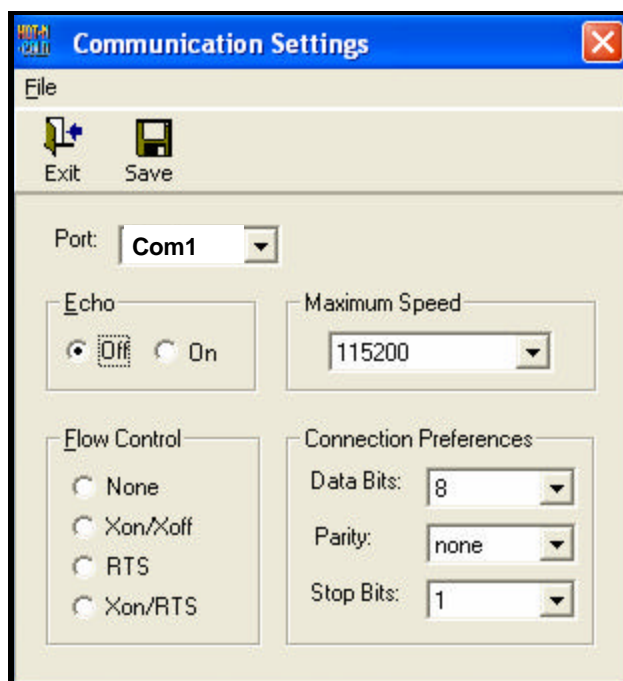
Communications Port Settings



In order for the computer to communicate with the temperature sensors, you must first set up the communications properties. The most common settings are the program defaults. In some situations a mouse might be connected to Com Port 1, in this case you would need to set the program to Com Port 2.

Older PCs might have a modem connected to Com2. If this is the case along with a mouse on Com1, then you need to install a Serial Communications Card. Have your computer technician install the card and configure it.

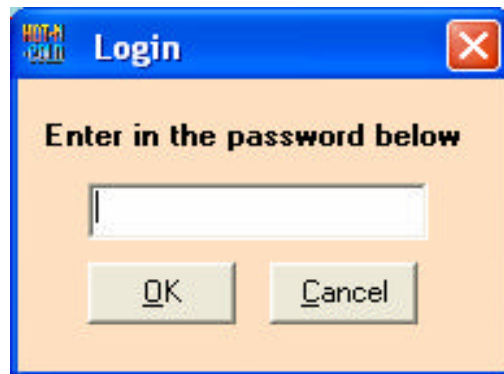
It is recommended that your **Hot-N-COLD Interface** unit is connected to either Com1 or Com2.



***** If any options are changed, the program must be shut down and restarted in order for the settings to take effect. *****

Company Information and Settings

This section of the **Hot-N-COLD Multi-Temperature Data Monitoring System** software allows the user to enter information about the company such as name, address & phone number. It also will allow the user to set the master password. At the time of the first initial installation, the password is blank.



When one wishes to gain access to this section, the following box will appear.

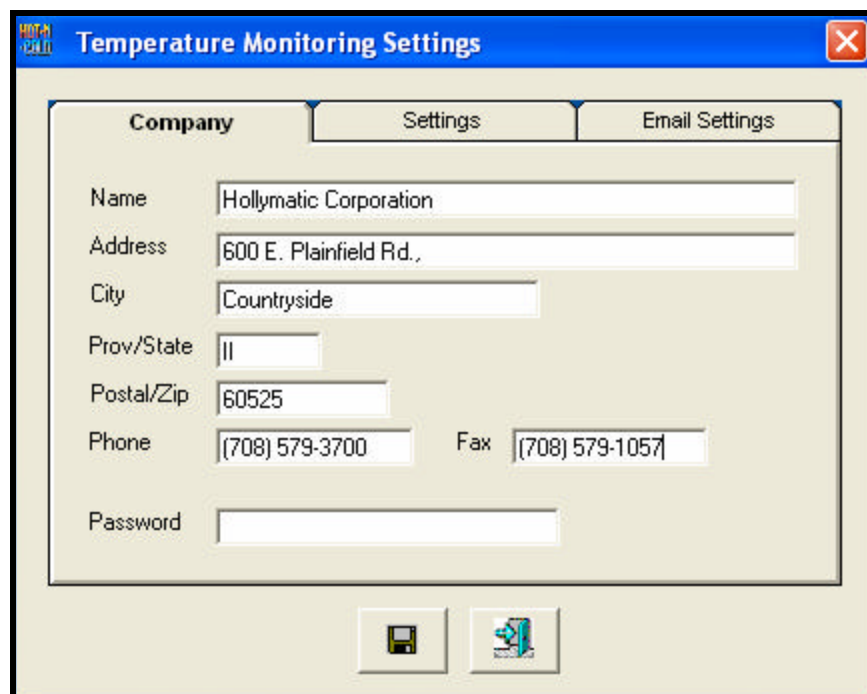
At this point the user must enter in the password and then click on **OK**. If the correct password was not entered, a message will appear in the text box below the command buttons, otherwise you will be presented with the Company Information screen.

If you select the **Cancel** option, you will return to the Main Screen.

Company Information

The information you enter here will be used for warranty and registration purposes as well as appear on various reports and screens.

After you have entered your company information, you should assign a Password for the system. The password is used to ensure that certain information is not tampered with. It is also required to terminate the program. You do not want people to accidentally shut the program down.



The screenshot shows a Windows-style dialog box titled "Temperature Monitoring Settings" with a blue header bar and a red close button. The dialog has three tabs: "Company", "Settings", and "Email Settings". The "Company" tab is selected and contains the following fields:

Field	Value
Name	Hollymatic Corporation
Address	600 E. Plainfield Rd.,
City	Countryside
Prov/State	IL
Postal/Zip	60525
Phone	(708) 579-3700
Fax	(708) 579-1057
Password	

At the bottom of the dialog, there are two buttons: a floppy disk icon (Save) and a printer icon (Print).

Temperature Monitoring Settings

The program comes with an audible alert that works through your computers speaker system (if you have speakers attached). This can be disabled and still maintain alarm functionality by checking off the **Disable Audible Alarm** option below.

You may want to read the sensors more often than you record your data. For Example, If you are required to log the temperatures once every 3 hours, the program can still read the sensors every 30 minutes. This is done to catch temperatures that are outside alarm limits before any damage can be done.

The Read/Record Interval is set under **Cold Temp Settings** and would normally be set to 10 - 15 minutes for reading, and 1 - 3 hours for recording. Readings can be taken and recorded in Celsius or Fahrenheit by clicking in the appropriate circle.

The number of zones being monitored should match the number in Monitoring Zones. (i.e. 5)

Cold Temp Settings		
	Hours	Minutes
Reading	0	10.00
Recording	3	0.00
Monitoring Zones	5	

Cook Cycles		
	Hours	Minutes
Reading	0	3
Recording	0	5
Current Job #	0	

The **Smoke House Cook Cycle Monitor** function is an add on and can be purchased from your dealer separately.

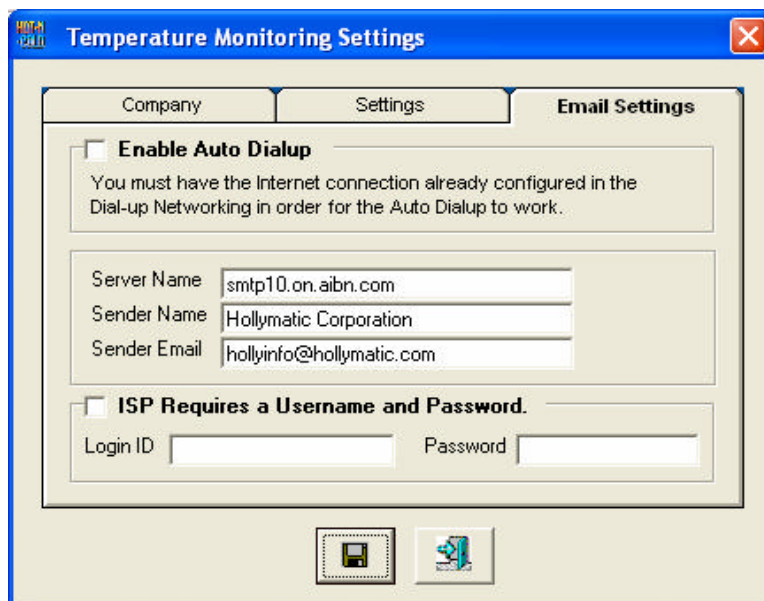
***** If any options are changed, the program must be shut down and restarted before the settings will take effect. *****

Email Settings

One of the options in the Alarm Notification is Email. This will allow one or several recipients to receive an Email when the temperature in one or more zones are outside the set limits. When completing the Email settings, please contact your ISP to find out if any special settings are required to send out Email through SMTP.

One of the most common requirements is authentication. If this is required by your provider then you must check off the **“ISP Requires a Username and Password”** option on the bottom of the screen and enter in the Username and Password.

The computer can automatically dial up to the internet to send the Email. This is helpful in situations where the **HOT-N-COLD Multi-Zone Temperature Data Monitoring** computer does not have a constant connection to the internet. If the user does not wish the internet to remain connected after the Email has been sent then they should setup an idle time to disconnect. Please consult your modem configuration and/or Dial-up Networking for this information.



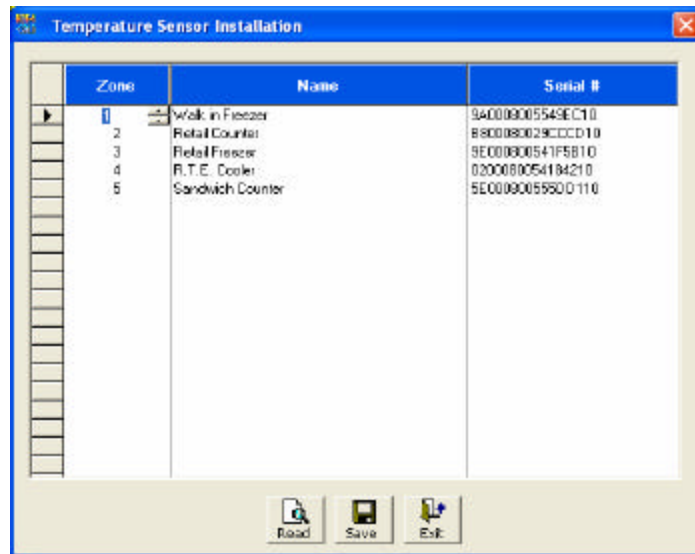
The screenshot shows a Windows-style dialog box titled "Temperature Monitoring Settings" with a blue title bar and a red close button. Inside, there are three tabs: "Company", "Settings", and "Email Settings". The "Email Settings" tab is selected. It contains a checkbox for "Enable Auto Dialup" which is unchecked. Below it is a text box explaining that an internet connection must be configured in Dial-up Networking for auto dialup to work. There are three text input fields: "Server Name" (containing "smtp10.on.aibn.com"), "Sender Name" (containing "Hollymatic Corporation"), and "Sender Email" (containing "hollyinfo@hollymatic.com"). Below these is another unchecked checkbox for "ISP Requires a Username and Password". Under this checkbox are two text input fields: "Login ID" and "Password". At the bottom of the dialog are two icons: a floppy disk icon and a modem icon.

It is recommended that for reliable Email delivery, you have the PC on a constant internet connection.

Retrieving Temperature Sensor Information



Click on the “Read” button to retrieve information for all the installed Cold sensors. This procedure will send out a read command that will gather the serial numbers for all the connected temperature sensors attached to the system and display them on the screen as below. You have been provided with an installation sheet and if you have completed it you will use this information now.



The screenshot shows a window titled "Temperature Sensor Installation" with a table containing sensor information. The table has three columns: Zone, Name, and Serial #. The data is as follows:

Zone	Name	Serial #
1	Walk in Freezer	940009005549EC10
2	Retail Counter	880008002900CC10
3	Retail Freezer	9E000900541F5B10
4	R.T.E. Cooler	0200080054184210
5	Sandwich Counter	5E0009005590D110

At the bottom of the window are three buttons: Read, Save, and Exit.

At this point you assign each temperature sensor to a zone along with a brief and unique description. The information entered here is what will appear on the “Main Monitoring Screen” and on all reports. Once all the information has been entered, click on the “SAVE” button. When you exit this module, the computer will refresh the main screen with the information saved in the database.

*****It is very important that sensors are assigned properly . If the sensors are assigned improperly, they will not match the zone listed on the ‘Main Monitoring Screen’ or on the reports. Be careful, be sure, check and verify!*****

Temperature Zone Configuration



The Temperature Zone Configuration module will allow you to set your alarm limits and enable/disable each sensor. The Information that was entered in the Sensor Installation will be presented as is shown below. From here, the user can then set the High/Low, Alarm active, and the Recording option. A check in the “Alarm” box indicates that you wish to be notified if the temperature read is below or above the Low or High set points. The delay allows for a zone to be in alarm without notification for a fixed number of minutes. If you wish to record the temperatures to the temperature database then the “Record” box must be checked. If a zone is taken out of service and you no longer wish to record the data then click on the “Record” box for that zone, remove the check mark, and turn the recording off.

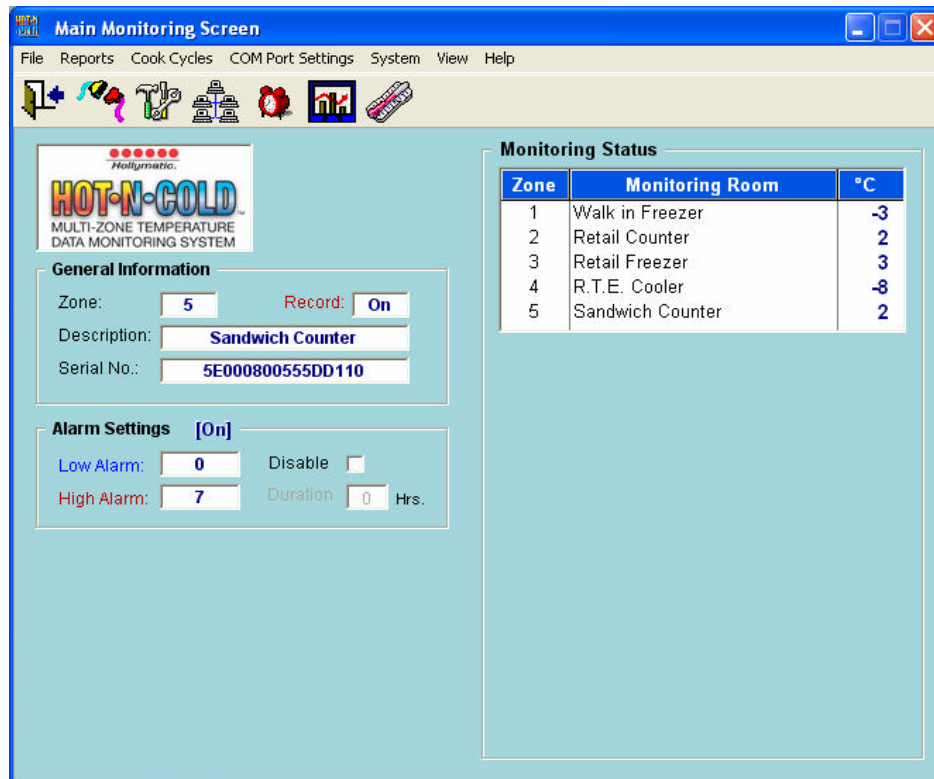
During regular calibration you may find that a sensor is no longer displaying the correct temperature. If the difference is a small, make the necessary calibration adjustment such that the final reading would be correct. Enter under the **Calibration** column the amount (positive / negative) to add to the sensor reading. Every time the computer collects the readings from the sensors, it will add or subtract the value in the Calibration Adj. field for that sensor. The final reading you see on the screen and printouts will match the actual temperature of the zone. The Alarm LED # is a function of the optional alarm panel.

Temperature Zone Configuration									
Exit	Save	Panel							
Zone	Name	Serial #	Alarm	Low	High	Delay (Min)	Record	Calibrate	Alarm Led #
1	Walk-in Freezer	9A0008005549EC10	<input checked="" type="checkbox"/>	-5	-1	0	<input checked="" type="checkbox"/>	-0.20	1
2	Retail Counter	B800080029CCCD10	<input checked="" type="checkbox"/>	0	7	0	<input checked="" type="checkbox"/>	0.00	2
3	Retail Freezer	9E000800541F5B10	<input checked="" type="checkbox"/>	1	15	0	<input checked="" type="checkbox"/>	0.00	3
4	R.T.E. Cooler	0200080054184210	<input checked="" type="checkbox"/>	-10	5	0	<input checked="" type="checkbox"/>	0.20	4
5	Sandwich Counter	5E000800555DD110	<input checked="" type="checkbox"/>	0	7	5	<input checked="" type="checkbox"/>	0.00	5

*****The calibration adjustment should only be used on small temperature adjustments. If the reading of any sensor exceeds 5° then that sensor should be replaced as soon as possible.*****

Main Monitoring Screen

The screen shown below is what you should see running on your computer at all times. The main monitoring window lists all monitored zones along with their description and current temperature. As you can see from the picture below, the Zones (1,2,4, & 5) have a white background. This tells the user that the temperatures are within the user prescribed alarm limits.



If the temperature in any one of the zones rises above or falls below the high / low alarm temperature then the background on that zone will turn red and an alarm will sound. As is the case in Zone 3 in the above picture.

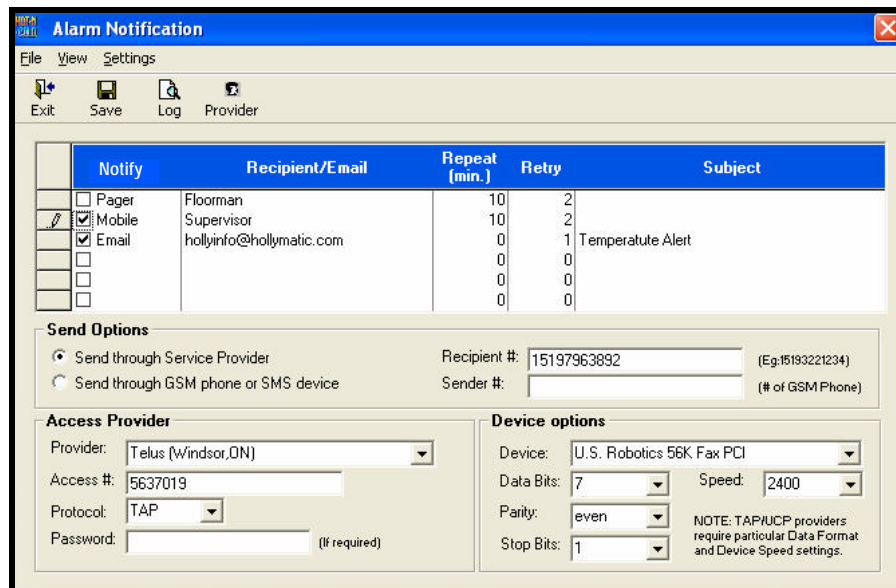
If the user is aware of the alarm and wishes to temporarily disable it, they must double click on the appropriate Zone in the **Monitoring Status** window and then check the Disable box on the bottom of the screen under **Alarm Settings**. You then enter the Duration that you would like to disable the alarm. The alarm can be disabled for up to 48 hours, at which time it will automatically return to the normal alarm settings.

*****Please note that by disabling an alarm, you are turning off all recording, alarm functions and notifications for that Zone.*****

Alarm Notification



The **Hot-N-COLD Multi-Temperature Data Monitoring System** has the ability of remote alarm notification using several different types of communications. You can be notified by alphanumeric Paging, Text Messaging to a Cell Phone or Emailing. This feature can be activated by selecting any one of the options from the drop down list in the “**Notify**” column. and checking off the option box in the first column. Depending on your notification type selected, the recipient can be either the persons name that will be receiving the alert (Pager, Mobile) or their email address (Email). You can set how often the computer will send out a notification by entering a value in the “Retry” box along with the number of minutes to wait before “Repeating” each call.



The screenshot shows the 'Alarm Notification' window with a menu bar (File, View, Settings) and a toolbar (Exit, Save, Log, Provider). Below is a table with columns: Notify, Recipient/Email, Repeat (min.), Retry, and Subject.

Notify	Recipient/Email	Repeat (min.)	Retry	Subject
<input type="checkbox"/> Pager	Floorman	10	2	
<input checked="" type="checkbox"/> Mobile	Supervisor	10	2	
<input checked="" type="checkbox"/> Email	hollyinfo@hollymatic.com	0	1	Temperature Alert
<input type="checkbox"/>		0	0	
<input type="checkbox"/>		0	0	
<input type="checkbox"/>		0	0	

Send Options

☒ Send through Service Provider Recipient #: 15197963892 (Eg:15193221234)
☐ Send through GSM phone or SMS device Sender #: (# of GSM Phone)

Access Provider

Provider: Telus (Windsor, ON)
Access #: 5637019
Protocol: TAP
Password: (If required)

Device options

Device: U.S. Robotics 56K Fax PCI
Data Bits: 7 Speed: 2400
Parity: even
Stop Bits: 1
NOTE: TAP/UCP providers require particular Data Format and Device Speed settings.

When setting up the type of Alarm Message to be delivered to the recipient it is very important that you become familiar with the communication settings each uses throughout their network. As seen from above, there are several factors that come into play when setting up the notifications. The following page will break down these features accordingly by category.

Email Notification:

The settings entered under **Email Settings** in the **Company Information and Settings** Module will be used for the internet email communications settings. Whatever information is entered here will be the used during the notification. The information below the grid does not apply here.

Pager Notification:

The feature has the ability of sending out an alphanumeric message to a recipient equipped with a pager.

Mobile Notification:

Because of advanced technology, the **HOT-N-COLD Multi-Zone Temperature Data Monitoring** can send out a text message to anybody equipped with a text message capable mobile device.

Send Options:

Specifies how the message is to be delivered to the recipient:

- 1> Service Provider:** In Many cases this would be the most common method of transmitting the messages. Providers such as Bell Mobility, Telus, Nextel and Paging Companies can be used. With this option, the user must select the appropriate Provider, enter in their Access Number, Password (If required) , Protocol along with number of the electronic device of the Recipient.
- 2> GSM Phone or SMS Device:** This gives you the ability of transmitting the message by connecting an external communication device such as a GSM/SMS phone. If this method is chosen then you only need the Recipient # Number and the number of the device used to send the message (Sender #).

Device Options:

Indicates to the PC which internal device of the computer will be used to deliver the message. From the drop down box you can choose from one of the many options available. If you are planning on sending your message electronically through the phone lines, then you should make sure that you have an internal modem installed. In this case one with a low speed such as 9600 baud rate is adequate. Other ways are through your serial ports to an external device.

The remaining options are the communication settings the device uses. You should always contact the company and ask them for these settings and/or look up the specs of the external communicator. The settings used most frequently by providers are a communication device such as a modem, Data Bits=7, Parity=Even, Stop Bits=1 and Speed=2400.



Access Providers:

Due to the number of communication providers and the various ways of communicating, we need a way to track the ones that will be used in the Alarm Notification. The user can choose from any one of the predefined providers already entered into the system or they can at any time, enter them in manually by selecting the provider option on the Alarm Notification toolbar.

By following the legend on the upper right hand side, the user can make their selection and enter the data. Whatever information is entered and saved here will be available throughout the life of the program.

The screenshot shows a software window titled "Access Providers" with a menu bar containing "File" and "Report". Below the menu is a toolbar with icons for exiting, creating a new record, saving, undoing, deleting, and navigating between records. The main area contains several input fields: "Name" (a dropdown menu showing "NexTel1"), "Access #" (a text box with "18003260038"), "Protocol" (a dropdown menu showing "TAP"), "Password" (a text box with "(If Required)" next to it), "Device" (a dropdown menu showing "U.S. Robotics 56K Fax PCI"), "Data Bits" (a dropdown menu showing "7"), "Speed" (a dropdown menu showing "1200"), "Parity" (a dropdown menu showing "even"), and "Stop Bits" (a dropdown menu showing "1"). To the right of the window is a legend explaining the toolbar icons: Exit, New record, Save, Undo, Delete, First record, Previous record, Next record, and Last record.

	Exits the current section/program
	New record
	Saves the current data
	Cancels or undo the saving process
	Deletes the current record
	Sets focus to the first record
	Skips back one record
	Skips forward one record
	Sets focus to the last record

As explained on the previous page, each provider requires certain settings and protocols when communicating electronically. Most of the time the defaults provided are adequate but there are those times when some companies will use equipment that requires special commands and code.

Whenever the user selects a provider from the drop down box in the Alarm Notification Module, all information pertaining to that provider will be pulled from the database and filled into the appropriate fields.

Data Archiving and Purge

Depending on how often you log your data, the database can grow to a large size. As it grows you might notice that reports take longer to process. To resolve this issue we integrated a Data Archiving and Purging option. All data will be deleted from the **Hot-N-COLD Multi-Temperature Data Monitoring System** database up to and including the date entered. If you wish to keep a copy of the purged data place a check in the box above the ending date.

This data can be viewed by selecting the Reports option on the top of the **Main Menu** module and then **Archive Data**.



Purge Data

Warning:

This procedure will delete all Data up to the date entered below.

If data was archived, the user can then view the purged data by selecting the History Reports option on the Main Menu.

Check the box below if you wish to Archive the data prior to purge.

Archive purged data into History Database ☐

Please enter in the ending date you wish to purge from the database.

12/31/2004 ▼

Purge Data

Repairing and Compacting the Database

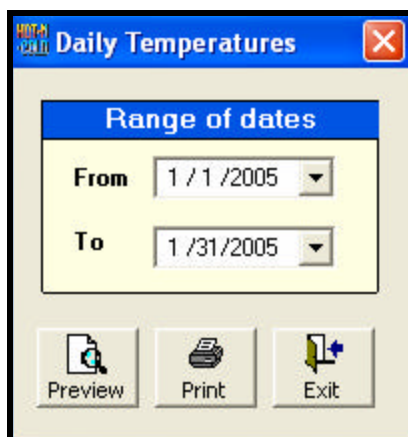
After you have purged your data or if your database becomes corrupted, run the Repair and Compact Database Procedure. This procedure will also decrease the size of your database.

Monitoring Reports

The **Hot-N-COLD Multi-Temperature Data Monitoring System** offers three different reports to the user. The first one is the Daily Temperature Report which will include all data logged within the date range specified. The second report, the Alarm Report, will list all alarms within the date range specified. The third report, Archive, includes all data that has been previously archived within the date range specified.

The user can either view the reports on the screen or print them.

A sample of the Daily Temperature report is included on the next page.



The 'Daily Temperatures' window has a blue title bar with the 'HOT-N-COLD' logo and a close button. Below the title bar is a yellow box labeled 'Range of dates' containing 'From' and 'To' date pickers set to '1 / 1 /2005' and '1 /31/2005' respectively. At the bottom are three buttons: 'Preview' (with a magnifying glass icon), 'Print' (with a printer icon), and 'Exit' (with a door icon).

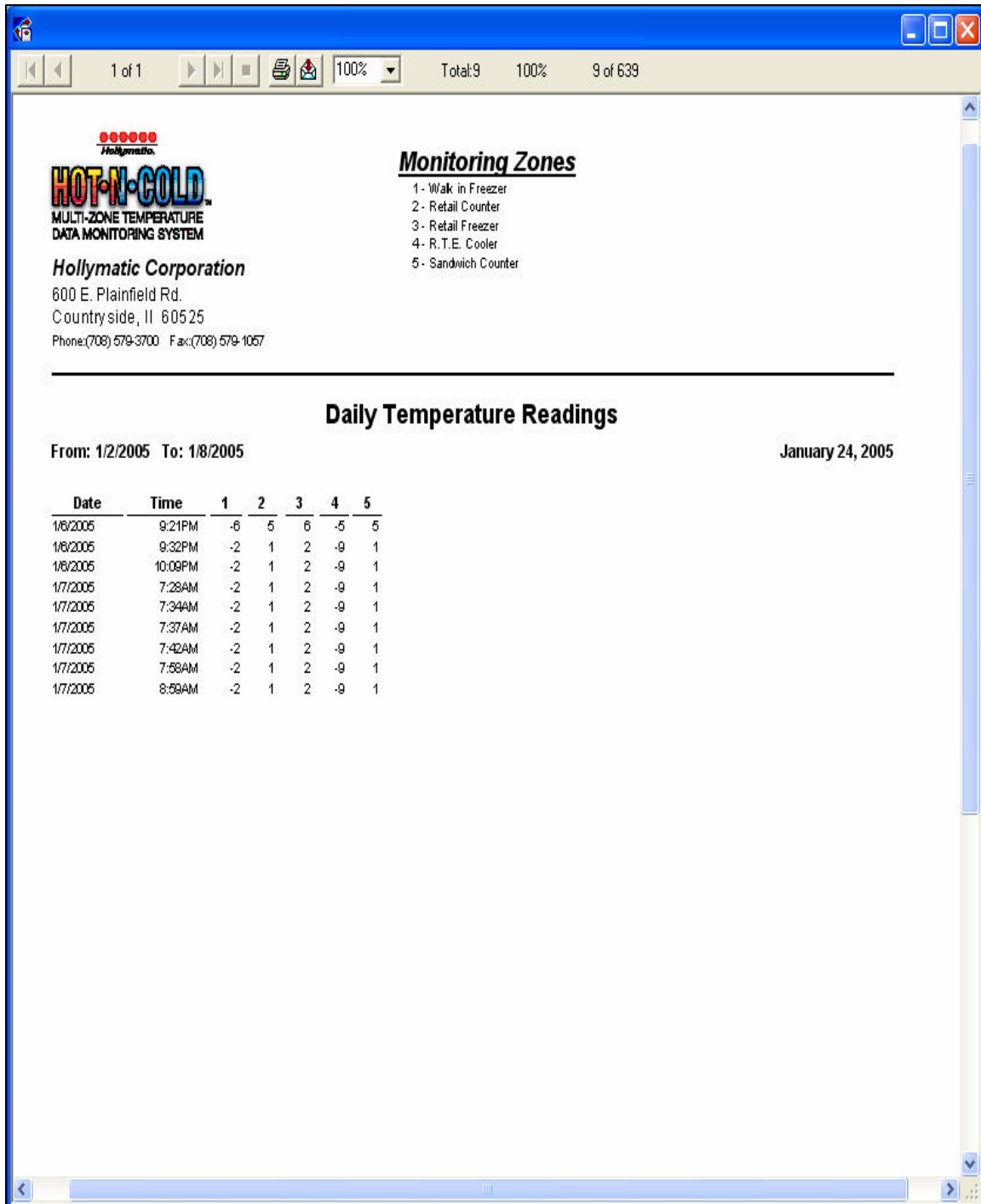


The 'Alarm Report' window has a blue title bar with the 'HOT-N-COLD' logo and a close button. Below the title bar is a yellow box labeled 'Range of dates' containing 'From' and 'To' date pickers set to '1 / 1 /2005' and '1 /31/2005' respectively. At the bottom are three buttons: 'Preview' (with a magnifying glass icon), 'Print' (with a printer icon), and 'Exit' (with a door icon).



The 'Archive Data' window has a blue title bar with the 'HOT-N-COLD' logo and a close button. Below the title bar is a yellow box labeled 'Range of dates' containing 'From' and 'To' date pickers set to '1 / 1 /2005' and '1 /31/2005' respectively. At the bottom are three buttons: 'Preview' (with a magnifying glass icon), 'Print' (with a printer icon), and 'Exit' (with a door icon).

Example of the Daily Temperature Report



Graphical Display



To display the recorded temperatures on a graph, you need to enter the Date Range, select the zones to be included and the type of graph to be displayed. Once completed, click on the button with the graph symbol.

You can print the graph by hitting the button.



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The program was designed to enhance your current temperature data logging system. The Hot-N-COLD Multi-Temperature Data Monitoring System

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