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Table of Contents

Introduction	4
Temperature Sensor Installation	5
Software Installation	8
Product Key Registration	10
COM Port Settings	11
Company Information and Settings	12
Entering your Company Information	13
Temperature Monitoring Settings	14
Email Settings	15
Retrieving Sensor Information	16
Temperature Zone Configuration	17
Main Monitoring Screen	18
Alarm Notification	19
Notification Types	20
Send Options	20
Device Options	20
Access Providers	21
Data Archiving & Purge	22
Monitoring Reports	23
Daily Temperature Readings	24
Graphic Data Display	25
License Agreement	26

Rev. 2.4.0

Introduction

Welcome to the **C3 Data Logger**:

This system is designed to read and log temperatures in hot or cold environments 24 hours a day, 7 days a week. The **C3 Data Logger** can operate in temperatures running from -67° to 257° Fahrenheit (-55° to 125° Celsius) in one or more coolers, chillers and/or freezers.

The **C3 Data Logger** is ideal for businesses which are required to monitor and record temperatures for product quality assurance. The **C3 Data Logger** 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 C3 Data Logger software which allows for remote alarm notification should not be used as your only source of equipment failure notification. Should the C3 Data Logger 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 several water resistant plastic electrical boxes. Find the box labeled 'Computer Interface' on the face plate. Place this box beside your computer and plug the connected cable into the **C3 Data Logger** interface supplied. We have supplied an extension cable, if the **C3 Data Logger** will not fit into the serial port on the back of your computer. For each monitoring Zone attach one of the remaining boxes outside of the freezer, chiller, cooler, display counter etc.

C3 Data Logger Interface



Computer Interface



*****Be sure to use the box labeled MASTER, since it contains the master temperature sensor.*****

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.

Computer Interface

Zone 1

Zone 2

Zone 3

Alarm Panel



To **C3 Data Logger Interface**

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

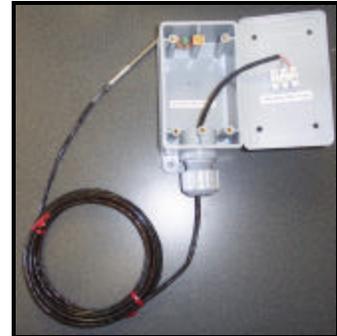
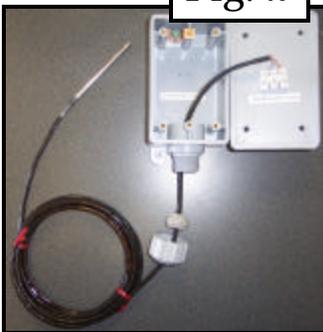


Fig. 2



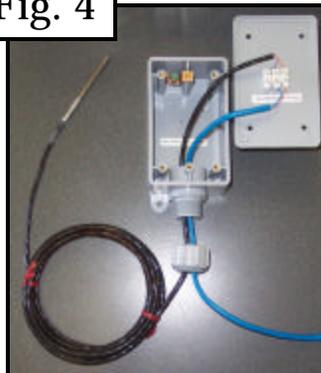
- 2) Loosen the plastic nut and rubber compression fitting on the box (Fig. 2).

- 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. 3



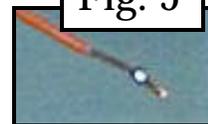
Fig. 4



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

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

Fig. 5



6) Loosen the screws on the terminal block the ones with no wires on them already). Match the colors and connect the wires to the terminal block. Each screw should have two wires under it, (i.e. 2 blue-white, 2 blue, 2 orange). The end result should look like (Fig. 6).

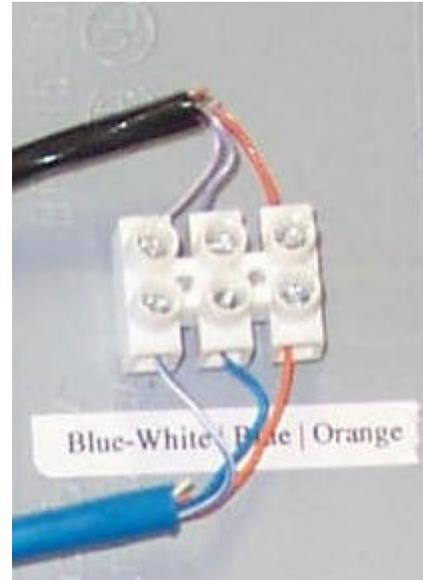
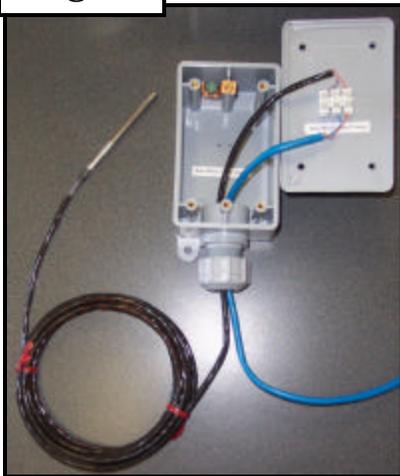


Fig. 7



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

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

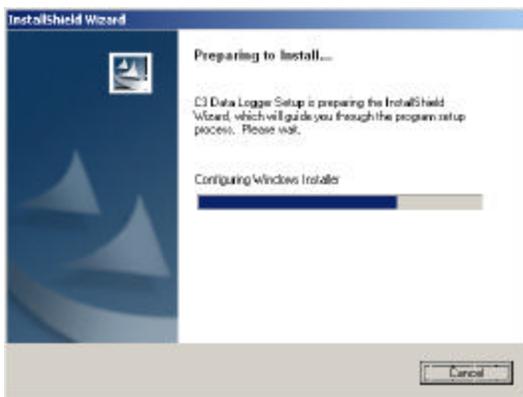
Fig. 8



Software Installation

The first step in getting the **C3 Data Logger** up and going is to first install the software. Please insert C3 CD into the CD Rom. The installation should automatically begin, 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.

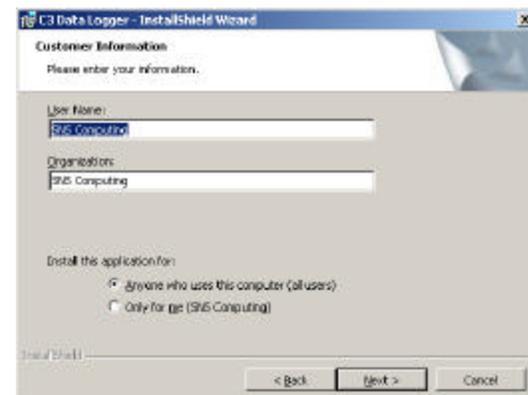
Once executed the following screens will appear. The user must accept the Welcome introduction by clicking on the next button.



Please read the License agreement and select I agree if you fully understand and agree with the terms and conditions.



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



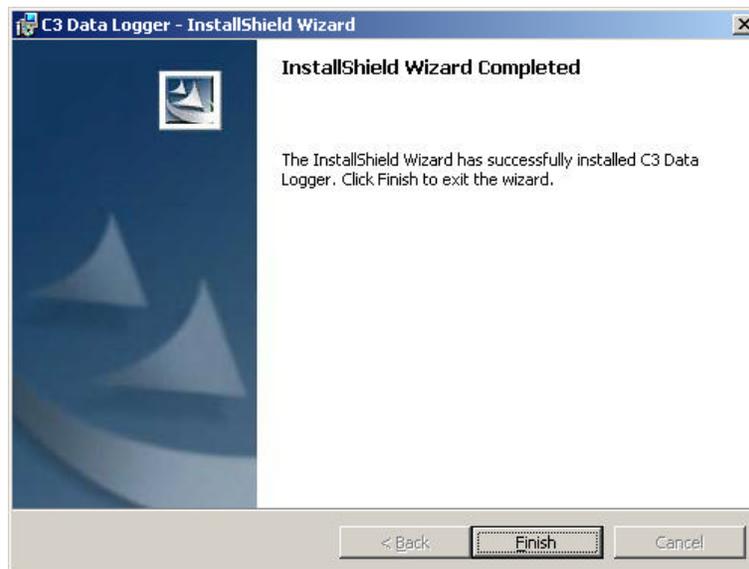
It is always recommended that you select **Typical Installation** so that all the required components and files are installed to get the maximum performance.



Make sure that you have successfully completed all the previous entries. Once you click on the **Install** button, all data will be written to the registry.



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 **C3 Data Logger**, a windows 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. *****



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, please replace the defective unit with the new one and re-connect all wires. Start up the **C3 Data Logger**, enter in the new **Product Key** and you are back in business.

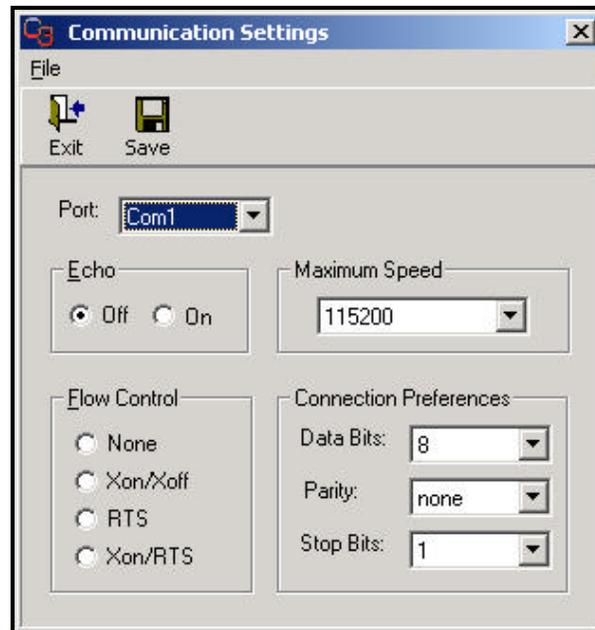
Communications Port Settings



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 **C3** Data Logger is connected to either Com1 or Com2.



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

Company Information and Settings

This section of the **C3 Data Logger Software** allows the user to enter in information about the company such as name, address & phone number. It also contains the master password where the user can at any time change it. Due to the fact that the password is part of a security function, the user must first enter in the current password before the system will allow him/her access.

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 on **OK**. If the correct password was not entered, a message will appear in the text box below the command buttons. Select the **Cancel** option will return the user back to the Main Screen.

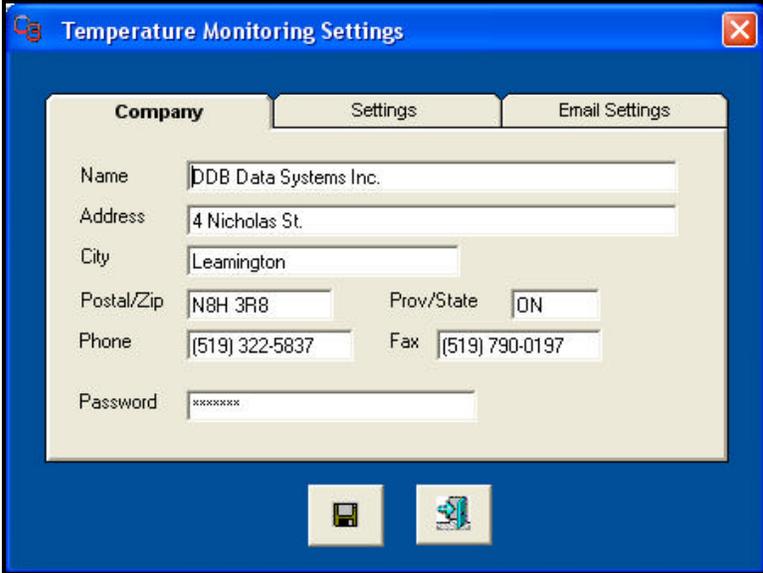
Once you have successfully log into the system, then you can continue on with the Company Information and Settings.

At the time of the first initial installation, the password is **C3Logger**.

Company Information

Throughout the program the computer will constantly be displaying information about the company that is currently using the **C3 Data Logger Software**. Whatever information is entered into the Company Information is what will be displayed. The information entered here should be as accurate as possible as it what will used when you register your product with DDB Data Systems Inc.

As explained on the previous page, the password box below is what is used to gain access to the secured sections of the program and to also shut it down.



The screenshot shows a window titled "Temperature Monitoring Settings" with a blue border and a close button in the top right corner. The window contains three tabs: "Company" (selected), "Settings", and "Email Settings". The "Company" tab contains the following fields:

Name	DDB Data Systems Inc.		
Address	4 Nicholas St.		
City	Leamington		
Postal/Zip	N8H 3R8	Prov/State	ON
Phone	(519) 322-5837	Fax	(519) 790-0197
Password	*****		

At the bottom of the window, there are two buttons: a "Save" button (represented by a floppy disk icon) and a "Close" button (represented by a red 'X' icon).

Due to the fact that the PC running the Data Logger Program might be accessible to several individuals, it is very easy and common for one of them to intentionally or accidentally shut the down a program and forget to re-activate it. By implementing the security option on shut down, a password must successfully be entered. This also helps the individual realize the he/she accidentally click on the close program option instead of minimize.

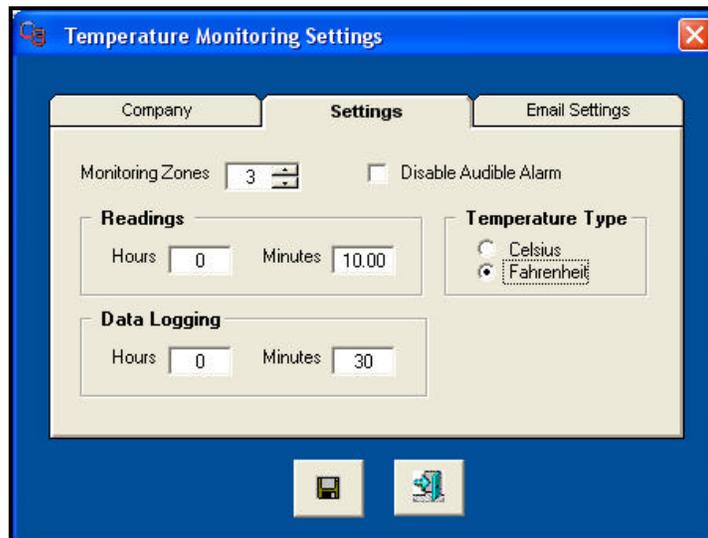
Temperature Monitoring Settings

Once the program is executed, the computer will only monitor the number of zones that are specified in the Default Settings window. The total number of Monitoring Zones must equal the number of temperature sensors installed.

The program comes with an audible alert that might at times become quite annoying. 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 the 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.

All temperature sensors will be read at the interval entered in the Read Monitors section. The recommended minimum time is 10 minutes. Enter in the desired hours and/or minutes in the appropriate boxes next to "Record Temperatures". This will set the time for recording the data into the database. If you wish to record your data in Celsius, click on the circle by Celsius, otherwise choose Fahrenheit for data logging.



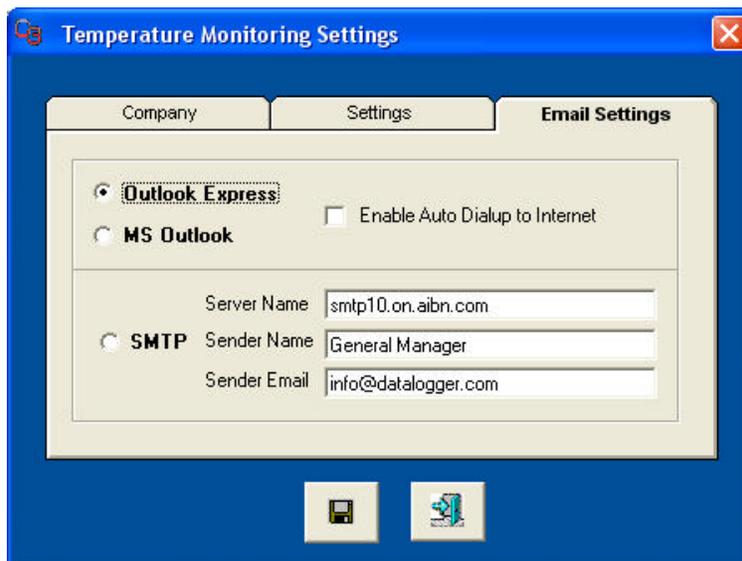
***** If any options are changed, the program must be shut down and restarted before the settings will take effect. *****

Email Settings

One of the options in the Alarm Notification is Email. This will allow one or several recipients to receive an Email when ever the temperature in one or several zones fall out of their set limits. When we are setting up configurations through the internet, there are usually several different types of setups and due to the numerous options to the end-user, the system must also contain different types of setups.

The two most common Email programs are Outlook Express and Microsoft Outlook. Any one of these requires a valid Email account already configured on the Data Logger PC. In cases where the Data Logger PC does not contain an Email account, you can instruct the program to deliver the Email through an SMTP service. This basically the companies internet providers SMTP address and Email address.

The computer can automatically dial up to the internet to send the Email. This is helpful in situations where the Data Logger PC does not have a constant connection to the internet. If the user does not wish to internet to remain connected after the Email has been sent then they should setup an idle time. Please consult your modem configuration for this information.

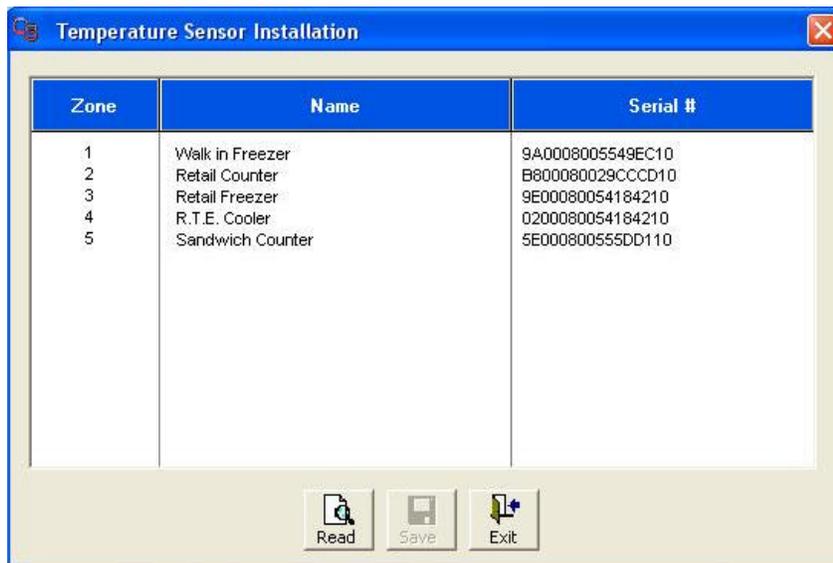


It is recommended that for reliable Email delivery, you have the PC on a constant internet connection.

Retrieving Temperature Sensor Information



At the time of installation the **C3 Data Logger Software** has no idea which Temperature Sensors are installed and in which rooms. This procedure will force to send out a read command that will gather all the Temperature Sensors on the line and display them on the screen.



Zone	Name	Serial #
1	Walk in Freezer	9A0008005549EC10
2	Retail Counter	B800080029CCCD10
3	Retail Freezer	9E00080054184210
4	R.T.E. Cooler	0200080054184210
5	Sandwich Counter	5E000800555DD110

To activate the Temperature Sensor Installation simply click on the “Read” button at the bottom of the module. Once completed the computer will search the database to see if any of the sensors are currently assigned to a zone and will display its information as well.

You must at this point assign all temperature sensors to a zone along with a brief and unique description. Whatever information is entered here is what will appear on the “Main Monitoring Screen” and on all reports. Once all information has been entered, click on the “save” button. Once you exit this module, the computer will refresh the main screen with the saved in the database. Any remaining zones that were not found on the read, will be removed from the system.

******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 zone configuration windows will allow you to set your alarm limits & 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 and the recording option. At any time the user has the ability of disabling any of the functions by removing the check mark in any of the corresponding boxes.

During regular calibration you may find that a sensor is no longer displaying the correct temperature. If the difference is a small amount, make the necessary calibration adjustment in so that final reading is correct. Enter under the **Calibration Adjustment** 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.

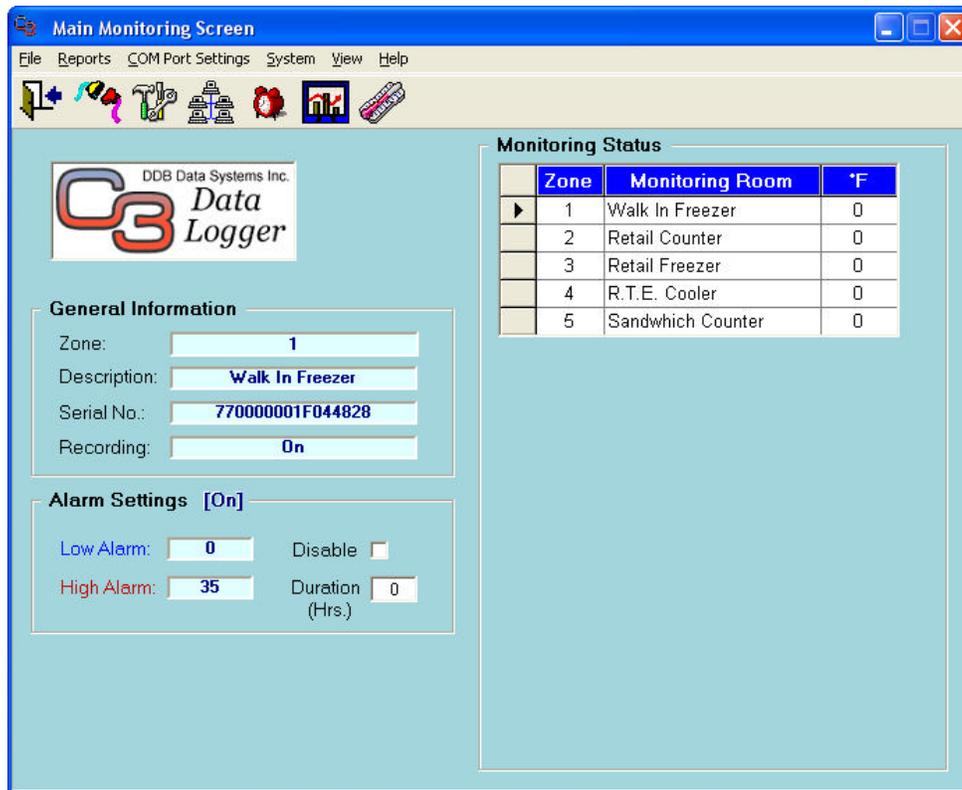
Zone	Name	Serial #	Alarm	Low	High	Delay (Min)	Record	Calibrate	Alarm Led #
1	Walk in Freezer	940008005549EC10	<input checked="" type="checkbox"/>	-25	-1	0	<input checked="" type="checkbox"/>	-0.20	1
2	Retail Counter	B800080029CCCD10	<input checked="" type="checkbox"/>	0	7	0	<input checked="" type="checkbox"/>	0.00	2
3	Retail Freezer	9E000800541F5B10	<input checked="" type="checkbox"/>	-15	0	0	<input checked="" type="checkbox"/>	0.20	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"/>	0.20	5

By default and if installed the computer automatically assigns each Led on the Alarm Panel with the corresponding Zone as seen above. This can be modified at any time by changing the **Alarm Led #** in the last column with the new value. This gives the user the ability to assign multiple zones per Led.

*****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 monitoring 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.

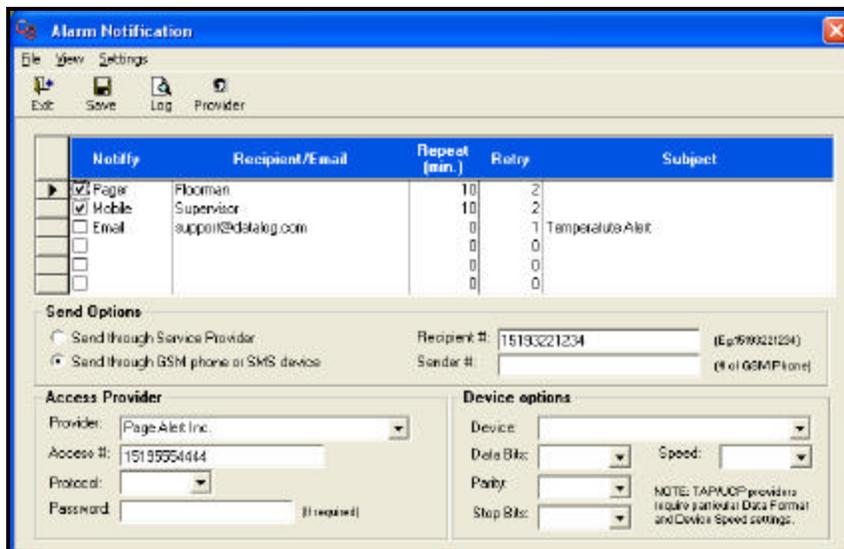
If the user is aware of the alarm and wishes to temporarily disable it, they must double click on the appropriate Zone in the **Alarm Settings** window and then check the Disable box on the bottom of the screen under Alarm Settings. The alarm can be disabled for up to 48 hours, at which time it will 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 (Only on Enhanced **C3 Data Logger** software)



The Enhanced **C3 Data Logger** has the ability of remote alarm notification using several different types of communications such as 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 between 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 checked="" type="checkbox"/> Pager	Floorman	10	2	
<input checked="" type="checkbox"/> Mobile	Supervisor	10	2	
<input type="checkbox"/> Email	support@cdatalog.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 #: 15193221234 (Eq:699021294)
 Send through GSM phone or SMS device Sender #: (Eq: GSM Phone)

Access Provider:
Provider: PageAlert Inc.
Access #: 15195554444
Protocol:
Password: (if required)

Device options:
Device:
Data Bits: Speed:
Parity:
Stop Bits:
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 factors accordingly to category.

Email Notification:

The settings entered under **Email Settings** in the **Company Information and Settings** Module is what will be used for the 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:

Due that advanced technology, the Data Logger PC 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. It uses providers such as Bell Mobility, Telus, Nextel and Paging Companies as a provider. 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 need to worry about only 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 PC 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 remanding 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 most frequently settings providers use are a communication device such as a modem, Data Bits=7, Parity=Even, Stop Bits=1 and Speed=2400.



Access Providers:

Due to the numerous amounts of communication providers and the different 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 top toolbar.

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

Access Providers

File Report

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

Name:

Access #:

Protocol:

Password: (If Required)

Device:

Data Bits: Speed:

Parity:

Stop Bits:

As explained in the previous page, each provider requires certain communication settings and protocols when communicating electronically. Most of the time the defaults used is adequate but there are those times when some companies are using 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 program and reports take longer to process. To resolve this issue we integrated a Data Archiving and Purging option. All data will be deleted from the **C3 Data Logger** 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.

1 / 1 / 2004

Purge Data

Repairing and Compacting the Database

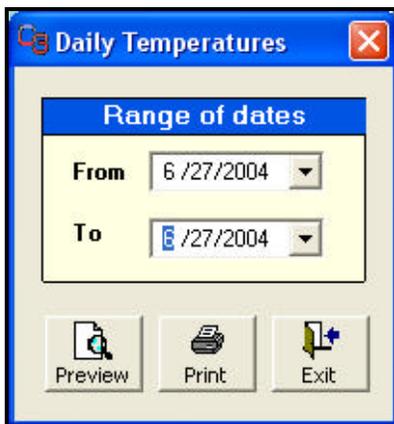
After you have purged your data or if your database becomes corrupted, run the Repair and Compact Database Procedure. This procedure will also decrease the size of your database which would end up taking up less storage space on your computer.

Monitoring Reports

C3 Data Logger 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.



Example of the Daily Temperature Report with data logged every hour.



DDB Data Systems Inc.
 4 Nicholas St.
 Leamington, ON N8H 3R8
 Phone:(519) 322-5837 Fax:(519) 790-0197

Monitoring Zones

- 1 - Walk In Freezer
- 2 - Retail Counter
- 3 - Retail Freezer
- 4 - R.T.E. Cooler
- 5 - Sandwich Counter

Daily Temperature Readings

From: 4/1/2004 To: 4/30/2004

June 27, 2004

Date	Time	1	2	3	4	5
4/1/2004	12:00:07AM	-12	2	-12	-12	7
4/1/2004	1:00:22AM	-13	2	-13	-13	8
4/1/2004	2:00:26AM	-13	2	-13	-13	8
4/1/2004	3:00:31AM	-12	2	-12	-12	7
4/1/2004	4:00:35AM	-12	3	-12	-12	8
4/1/2004	5:00:39AM	-12	3	-12	-12	4
4/1/2004	6:00:45AM	-12	3	-12	-12	8
4/1/2004	7:00:49AM	-12	4	-12	-12	7
4/1/2004	8:00:54AM	-12	2	-12	-12	8
4/1/2004	9:00:58AM	-10	3	-10	-10	8
4/1/2004	10:01:02AM	-11	3	-11	-11	6
4/1/2004	11:01:07AM	-11	2	-11	-11	7
4/1/2004	12:01:15PM	-12	2	-12	-12	6
4/1/2004	1:01:20PM	-12	2	-12	-12	8
4/1/2004	2:01:25PM	-11	3	-11	-11	8
4/2/2004	3:51:27AM	-12	2	-12	-12	7
4/2/2004	4:51:32AM	-12	2	-12	-12	4
4/2/2004	5:51:37AM	-2	2	-2	-2	7
4/2/2004	6:51:41AM	-13	4	-13	-13	6
4/2/2004	7:51:45AM	-10	3	-10	-10	8
4/2/2004	8:51:51AM	6	2	6	6	4
4/2/2004	9:51:55AM	-14	2	-14	-14	6
4/2/2004	10:52:00AM	-12	2	-12	-12	5
4/2/2004	11:52:04AM	-13	2	-13	-13	6
4/2/2004	12:52:09PM	-12	2	-12	-12	7
4/2/2004	1:52:13PM	-12	3	-12	-12	6
4/2/2004	2:52:17PM	-10	3	-10	-10	8
4/2/2004	3:52:22PM	-12	2	-12	-12	4
4/2/2004	4:52:26PM	-12	2	-12	-12	8
4/2/2004	5:52:31PM	-13	3	-13	-13	7
4/2/2004	6:52:35PM	-12	4	-12	-12	4
4/2/2004	7:52:40PM	-12	2	-12	-12	4
4/2/2004	8:52:44PM	-12	2	-12	-12	12
4/2/2004	9:52:56PM	-12	3	-12	-12	5
4/2/2004	10:53:00PM	-2	3	-2	-2	7
4/2/2004	11:53:05PM	-6	2	-6	-6	8
4/3/2004	12:00:07AM	-8	2	-8	-8	8
4/3/2004	1:00:14AM	-14	2	-14	-14	8
4/3/2004	2:00:19AM	-12	2	-12	-12	7
4/3/2004	3:00:24AM	-10	3	-10	-10	5
4/3/2004	4:00:28AM	-11	2	-11	-11	6
4/3/2004	5:00:33AM	-13	2	-13	-13	6
4/3/2004	6:00:37AM	-14	2	-14	-14	5
4/3/2004	7:00:42AM	-13	2	-13	-13	7
4/3/2004	8:00:47AM	-12	2	-12	-12	8
4/3/2004	9:00:52AM	-10	6	-10	-10	6
4/3/2004	10:00:57AM	-12	2	-12	-12	8
4/3/2004	11:01:01AM	-12	2	-12	-12	8
4/3/2004	12:01:06PM	-12	2	-12	-12	8
4/3/2004	1:01:14PM	-12	3	-12	-12	7
4/3/2004	2:01:18PM	-13	2	-13	-13	5

Graphical Display (Enhanced **C3 Data Logger** software)

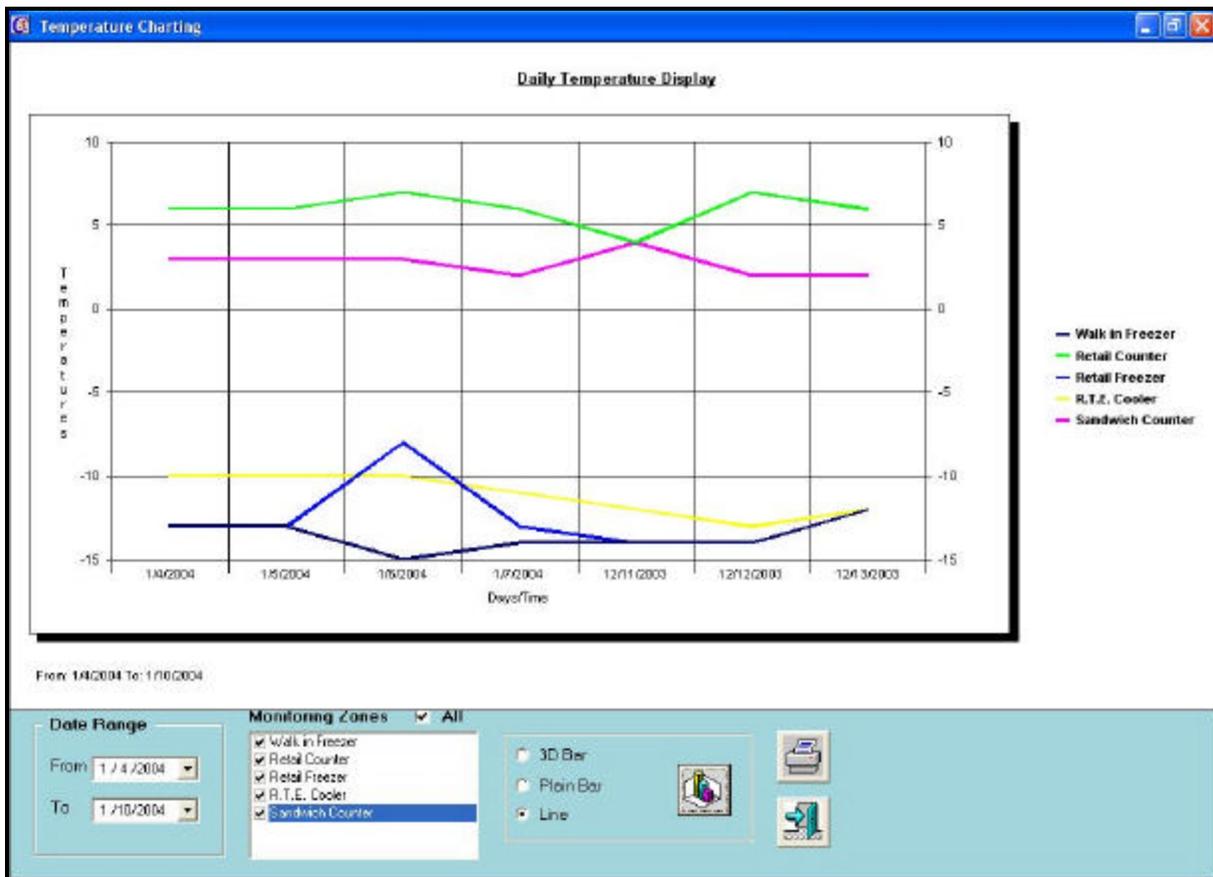


To display the recorded temperatures on a graph, you need to enter the Date Range, select the zones to include and the type of graph to display. Once completed, click on the button with the graph symbol.

You can print the graph by hitting the



button.



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