Normal Operations

(Tasks you would typically be doing)

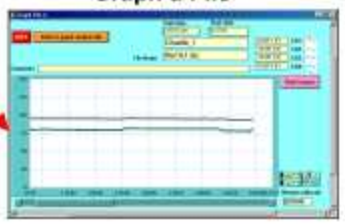
Main Program Screen

Copy a File

Copy a File to "View Folder"

Graph a File

Graph a File



Change the Setup

Setup Screen

Main Screen Buttons & Indicators

White Arrow means program not running. Click on White Arrow to Run program.

Clicking "QUIT" stops program

Click for Setup Screen

Click to Graph a File

Show / Hide Realtime Chart

Click to copy a file to "View Directory"

Serial Port in use (Global Setup Screen)

Data being stored on this drive (Global Setup Screen)

Name of Data Storage File for this chamber. Entered on Setup Screen.

Chamber Name. Entered on Hardware Config. screen.

Channel Names (up to 4) Entered on Hardware Config. screen.

Selected Chamber Number to view.

Y axis Default Hi and Low values selected on Global Setup screen.

X axis Minimum and Maximum selected on Global Setup screen. Note: You can click on either the Max. or Min. value and enter new values "on the fly".

Active indicator is yellow (ON) when Chamber has been selected to datalog. (Selected ON and OFF on Setup Screen)

Red ALARM Indicator is ON when any of the 4 channels associated with this Chamber exceeds the Hi or Low Limits as selected on the Setup Screen.

Digital channel readings 1 - 4 (top to bottom) of the channels associated with this chamber.

If the Chamber is in the RED (ALARM limits exceeded), the RED Indicator can be reset by clicking on the Acknowledge (Ack) button. The "Ack" button turns YELLOW and remains YELLOW until the "out of limit" condition returns to normal. Should a different channel on the same chamber trip its alarm limit, the RED ALARM indicator will again illuminate.

This is the Chamber Number. You may have up to and including twenty Chambers managed by this ChamberLog Program. Each Chamber can have from 1 to 4 input channels.

Setup Screen Buttons & Indicators

Click to exit (changes not saved)

Channel Name (assigned on Hardware Setup Screen).

Click to Change 1st Level Access Code.

Click to access Hardware Setup screen

Units (assigned on Hardware Setup Screen).

Chamber Name - Assigned on Hardware Config. Screen.

Chamber Number Select

FileName - This is where you put in the datalog FileName.

Chamber Active / Disabled select. Must be Active for datalog to occur.
Note: This control is hidden until you enter a FileName.

Autodial (not currently available)

Hi and Low Limits for alarm (NaN) means Not a Number. Same effect as being cleared.

Enter comments and/or information here. This information appears on the datalog file.

You MUST click this button for any changes to be saved. The Chamber # is automatically incremented by one. The changes will not be saved unless this control is clicked.

Pop Up Menu. Time between datalogs

Select desired interval from Pop Up Menu

- 5 sec.
- 10 sec.
- 20 sec.
- 30 sec.
- 1 min.
- 2 min.
- 5 min.
- 10 min.
- 15 min.
- 30 min.
- 1 hr.
- 2 hr.
- 4 hr.
- ✓ Alarm only

Hardware Configuration Screen

EXIT (Quit this screen) button.
Click to leave screen without saving changes.

You MUST click on the "Push to save displayed settings" button to save any changes you have made. The Chamber # is automatically incremented by one.

"Chamber #". Selects the chamber to be configured.

Enter the desired "Chamber Name".
This name will appear on the Setup Screen, the Main Screen, and the DataLog File.

Enter the desired "Channel Name" for each of the four channels. These names will appear on the Setup Screen, the Main Screen, and the DataLog File.

Select the "Channel units" from the pop-up menu. These unit will appear on the Main Screen, the Setup Screen, and the DataLog file.

Units Pop-up Menu.

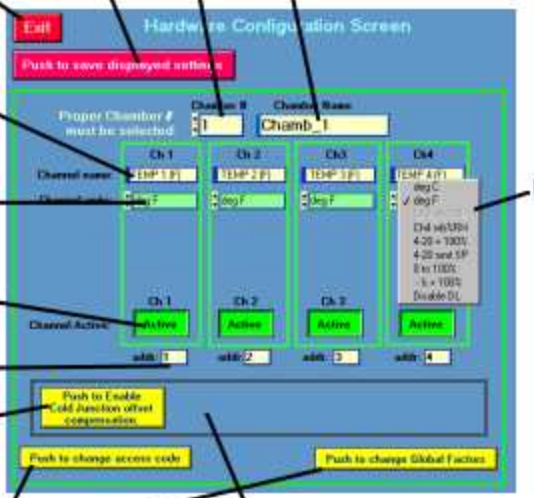
"Active / Disabled" select (one for each channel).

Proper addresses for each channel of this chamber shown here.

Click to enable ultra precise thermocouple cold juction compensation calibration for each of the four channels.

Click to change Access Code for this screen.

Click to access Global Setup Screen.



Cold Junction Offset compensation

Click to exit Offset Compensation

Channel being compensated.

Enter the temperature being simulated by the Thermocouple Calibrator.

Clicking here stores the offset compensation required to zero out any small residual error in the cold junction compensation for the selected channel.

Global Setup Screen

Select drive to use for Datalog file storage.

drive A
drive B
✓ drive C
drive D
drive E
drive F
drive G
drive H
drive I
drive J
drive K
drive L
drive M
drive N

Pop up Menu selection

Serial Port

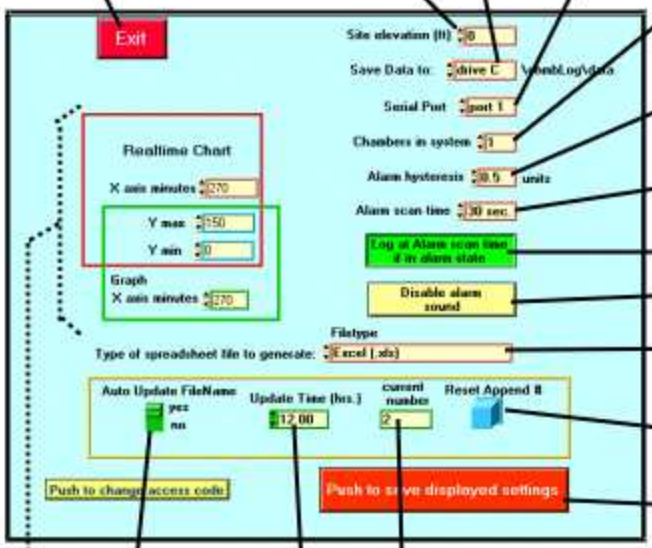
✓ port 1
port 2
port 3
port 4
port 5
port 6
port 7
port 8
port 9
port 10

Pop up Menu

Site Elevation in feet:
For use in Dry Bulb - Wet Bulb % RH calculations.

Enter the number of the chamber with the highest assigned number in the network.
Example: Five chambers in the network. One of the chambers has the number 10 assigned to it. You would enter a 10.
(10 is the highest number of any chamber in the network.)

Click to exit without saving.



Alarm hysterisis: When the alarm is tripped, it will not clear until the input has gone into the "good" condition by the Alarm hysterisis setting and the Acknowledge button clicked..

5 sec.
10 sec.
20 sec.
✓ 30 sec.
60 sec.

Alarm scan time (Datalog interval while in the ALARMED state).
Pop up Menu

Log time changed to Alarm scan rate if Enabled.

Alarm sound Enabled / Disabled

✓ Excel (.xls)
Quattro Pro (.wb3)
Text file tab delimited (.txt)

File Type Selection.
Pop up Menu

Resets "current number" to zero when clicked.

You MUST click this button for the changes to be saved. If you changed the "Chambers in system" the program will automatically be stopped as evidenced by the "white arrow" showing at the Main Screen. Click on the "white arrow" to restart the program.

Number to be appended at next FN change.

Hours between FN changes.

Enables / Disables Auto Update of FileName (FN).
New FN = FN&# where # is "current number".

Reproduced from above for easier viewing.

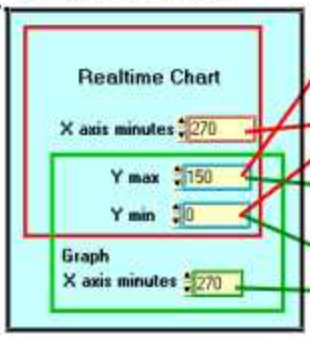
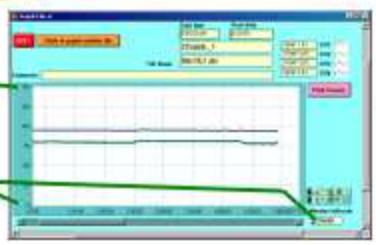


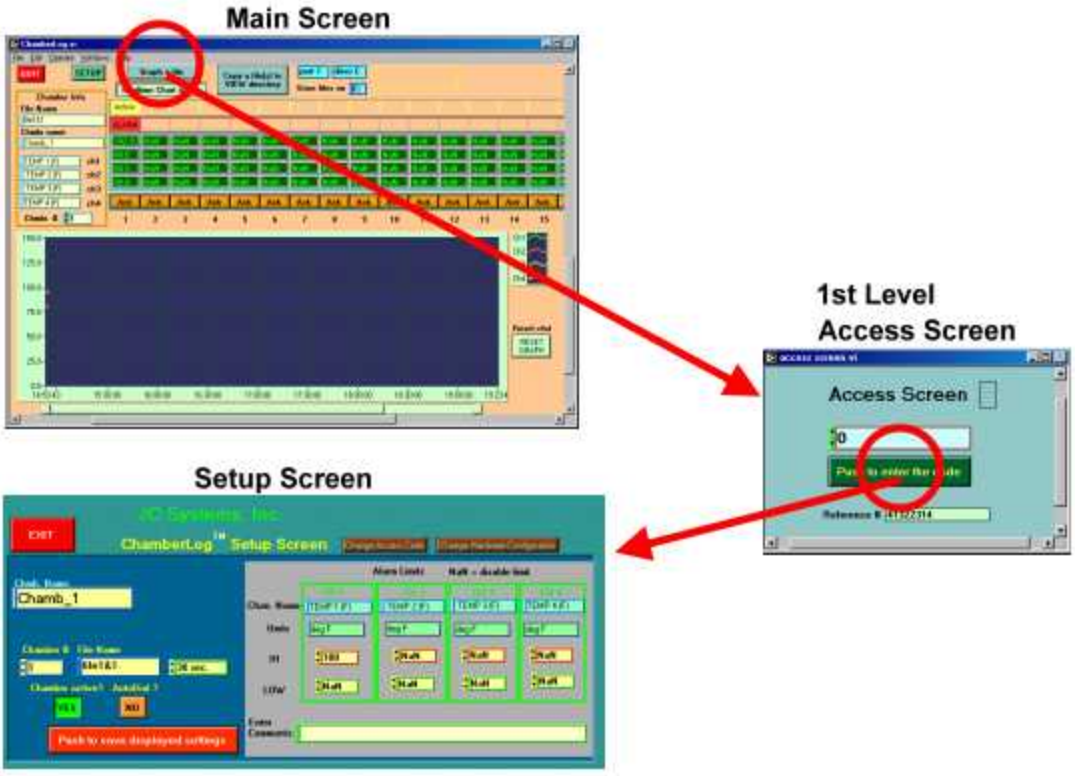
Chart & Graph X and Y axis default control settings.

Realtime Chart on Main Screen.

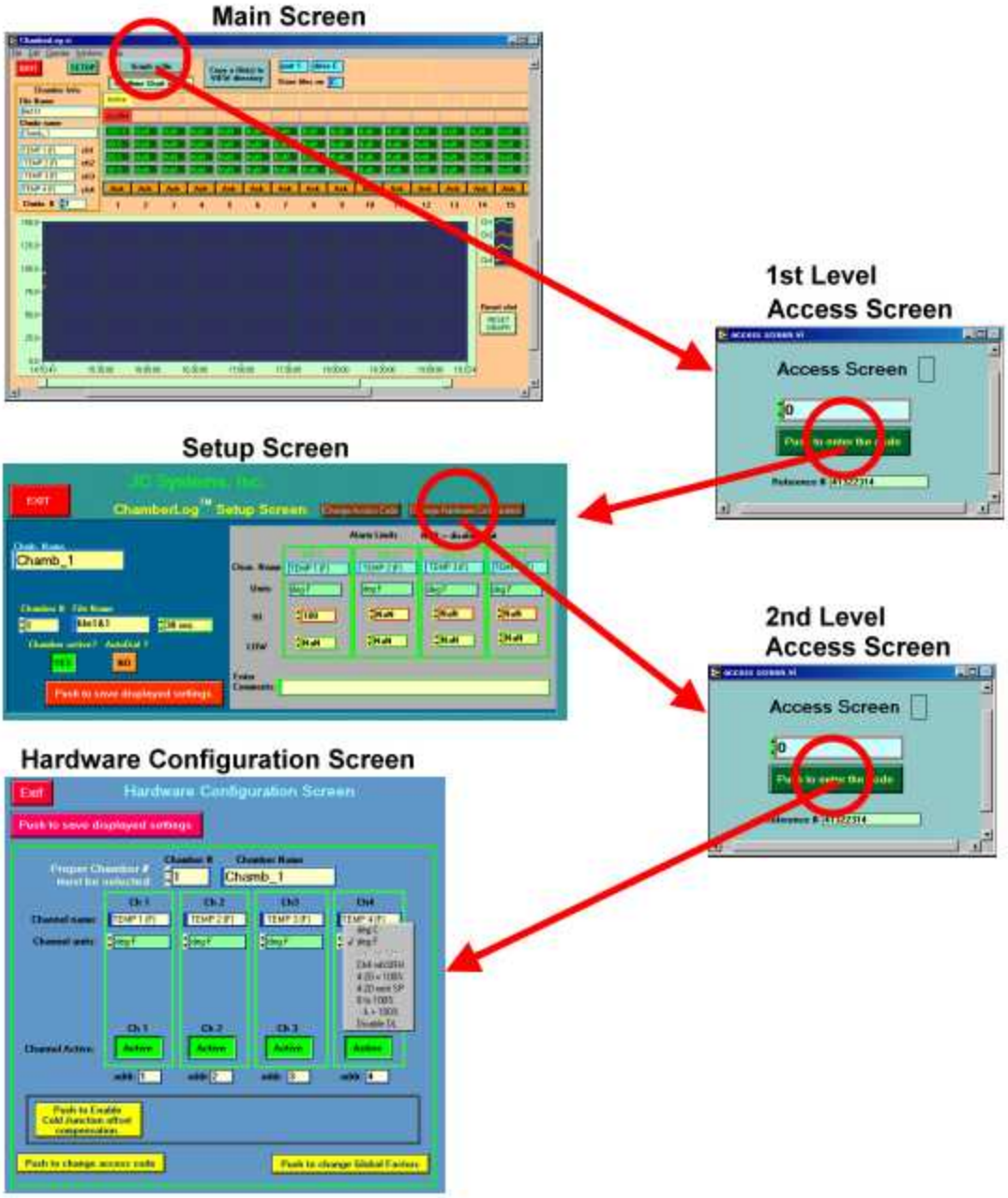


"Graph a file" screen.

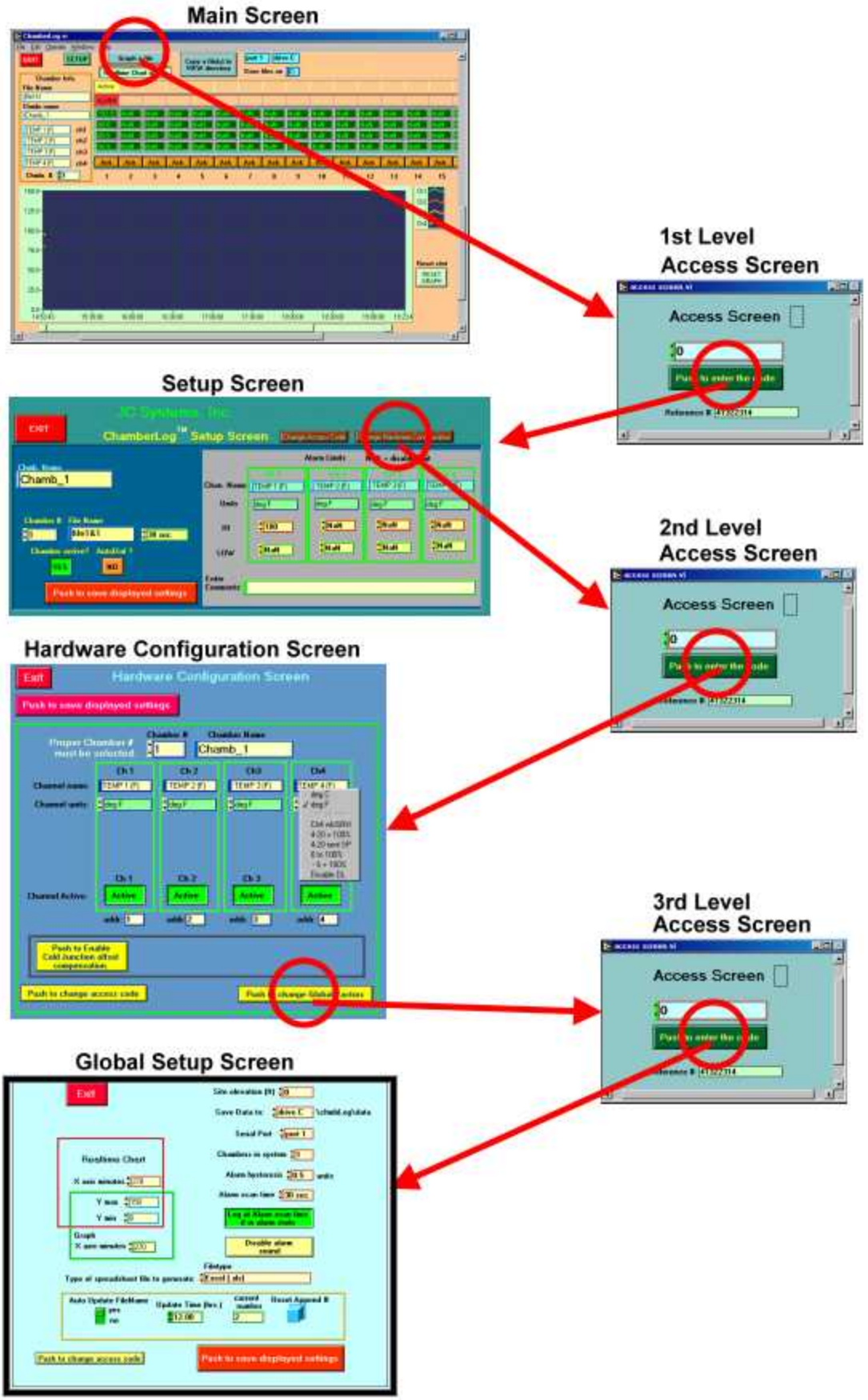
Navigating to the Setup Screen



Navigating to the Hardware Configuration Screen



Navigating to the Global Setup Screen



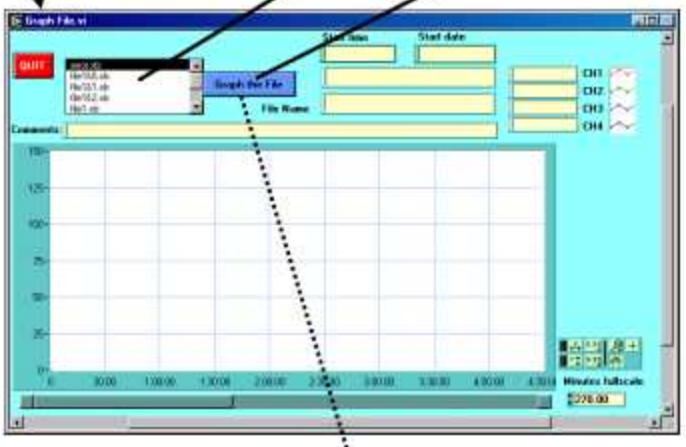
How to show the graph of any datalog file
(on the fly)

Showing the graph of any datalog file is as easy as 1 - 2 - 3.

1 > Click on the "Graph a file" button.

2 > Select the file to graph.

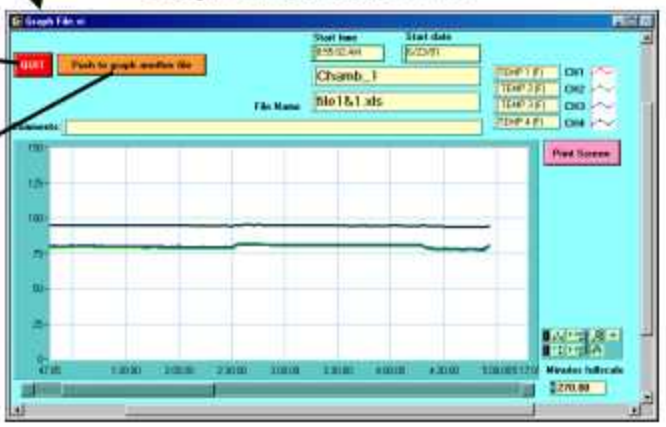
3 > Click on the "Graph the file" button.



Graph of selected file

Click on "QUIT" button to close
the graph window and return to the Main Screen.

Click here to select another file.



How to copy a file to the View Directory

It is necessary to make a copy of an active datalog file instead of simply working with that file on the "data directory".

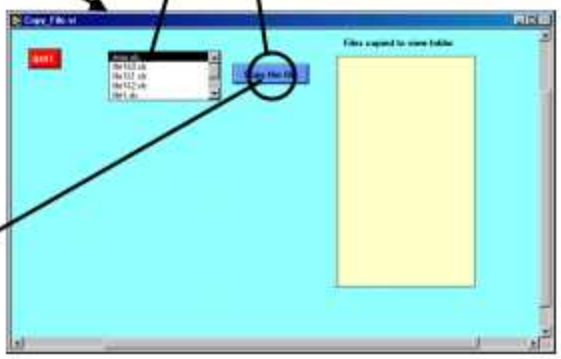
If you tried to graph the file being used by the ChamberLog program, the computer would show an error when it tried to open the datalog file that you had open for graphing.

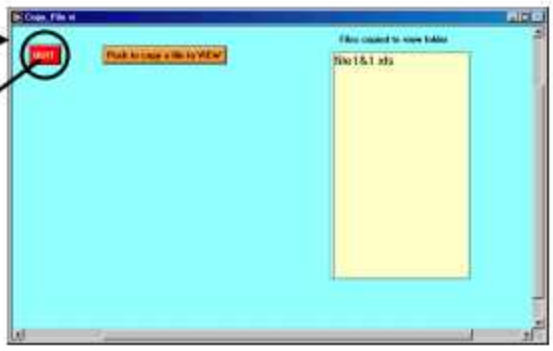
This proceedure makes a copy of the active file and places the new copy on the "View directory" (folder).

You can then graph, work with or modify the new file (copy) without interfering with the active datalog file.

Select file to be copied.

Click on the "Copy the file" button.

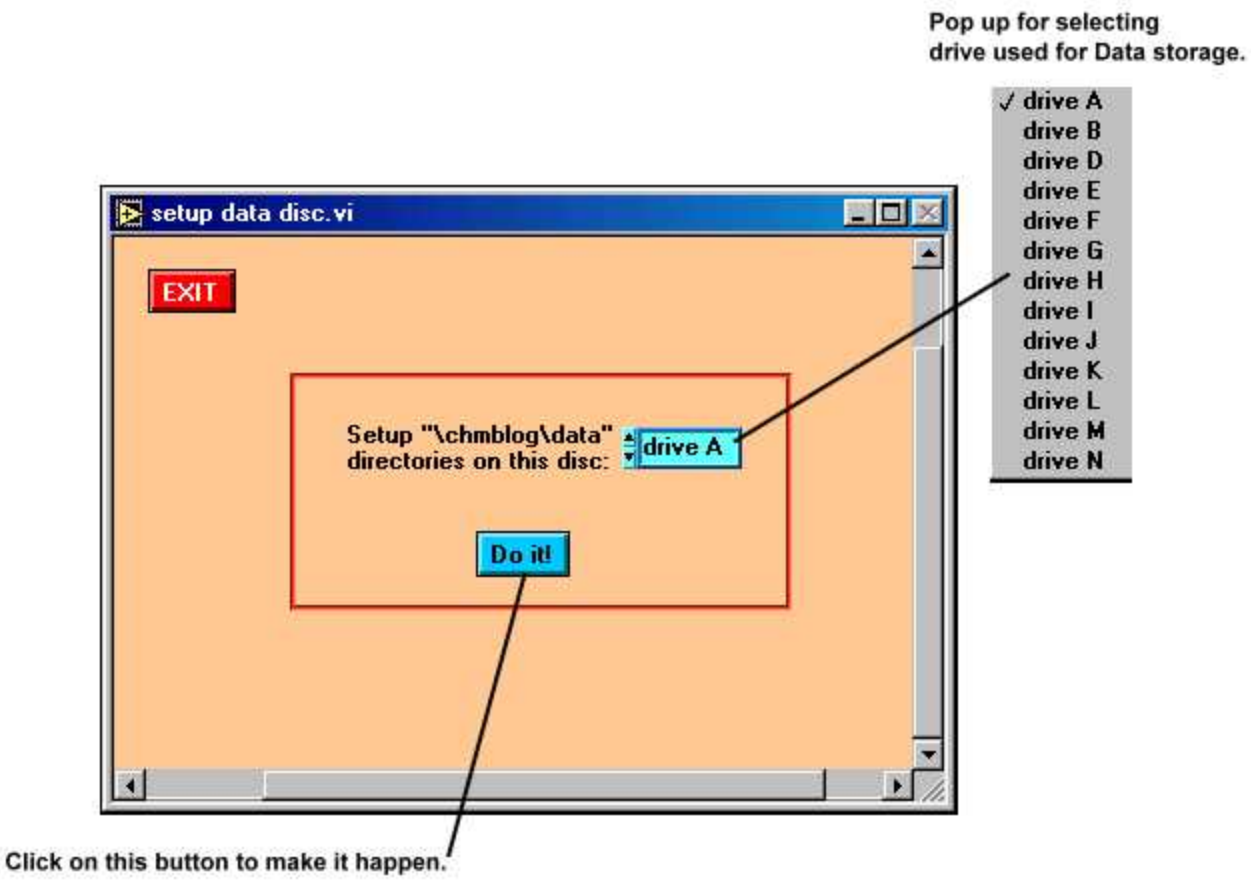




Close window - return to Main Screen.

Preparing a Disc or Drive for Data Storage

If you are going to use any disc (other than drive C) for data storage, you must first prepare the disc for use as storage.
This program creates the correct directories used by the ChamberLog program to utilize for data storage.



How to reconfigure a module

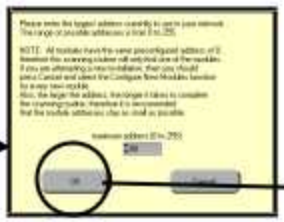
1 > Stop the program by clicking on the RED Exit button on the Main Screen. When the white arrow shows, close the program by clicking on the X in the upper right corner or close the file.

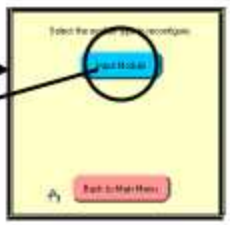
2 > Start the "CL Module Configuration.exe" program.

3 > Follow the designated clicks.

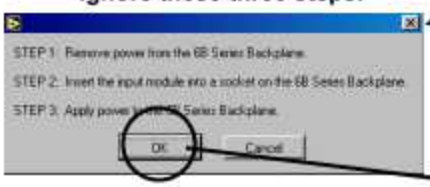
Starting screen

Serial Port Select

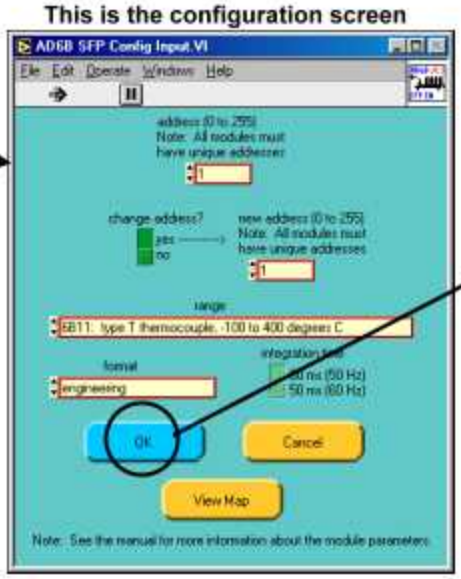




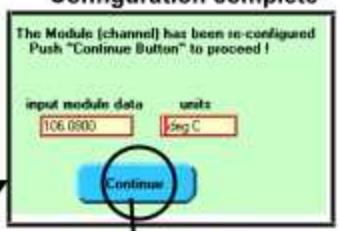
Ignore these three steps!

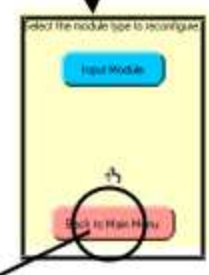


This is the configuration screen



Configuration complete





This is the configuration screen. Select the current address of the module you wish to reconfigure. Leave the "change address" switch to the NO position. Select the configuration you need on the Range Pop up menu. Click OK to configure the module.

Return to first screen and close program.