SYSTEM SETUP SCREENS

In This Chapter...

Introduction .................................................................................................................. 5–2
Chapter Organization .................................................................................................. 5–3
Accessing the System Setup Screens (no project loaded) ........................................ 5–4
Accessing the System Setup Screens (with project loaded) ......................................... 5–5
System Setup Screens – Enable Password in Software ............................................. 5–7
System Setup Screens Flowchart ................................................................................ 5–13
Main Menu ................................................................................................................... 5–14
Information Menu ....................................................................................................... 5–15
Setting Menu ............................................................................................................... 5–19
Test Menu ................................................................................................................... 5–25
Memory Menu ............................................................................................................. 5–35
Chapter 5: System Setup Screens

Introduction

The *C-more* touch panels include a series of built-in **System Setup Screens** that allow the user to view detailed information about the panel, adjust certain features, configure communications, test various functions of the touch panel, backup & restore system, recipe, log and project memory, clear memory, and reset all values and conditions back to the original factory defaults.

The following is presented to give the user a detailed step by step look at 1.) how to access the System Setup Screens, 2.) what adjustments and features are available, 3.) when and why the feature may need to be adjusted or used, and 4.) how to adjust and/or interrupt the features.

The System Setup Screens from the Main Menu are split into four different categories to make it simple for the user to select the area for viewing information, making adjustments, testing the touch panel or working with the internal and/or external memory options. The four Main Menu selections are:

**Information**

Here you will find detailed information in regards to the touch panel model, the panel’s name, version information for the hardware, boot loader and firmware, clock source, battery status and beeper status. Also available are details on the panel’s internal memory and the status of any external memory devices, such as CompactFlash memory and USB pen drives. Communication port details are also available in this area, as well as an error log to help in trouble-shooting the system.

**Setting**

This is the area for 1.) making adjustments to the internal clock, 2.) adjusting the brightness (color panels) and contrast (grayscale panels) of the display, 3.) adjusting (calibrating) the touch panel, 4.) enabling or disabling the internal beeper, and 5.) the IP Address of the touch panel can also be configured from this menu area. Access to the IP Address Setting screen is covered later in this chapter.

**Test Menu**

From this sub menu, the user can 1.) test the touch panel, 2.) test the display, 3.) test the communication ports, and 4.) test both the internal beeper or the audio line output, if a speaker with an amplifier is connected. A WAV sound file is system provided for the audio line output test.

**Memory**

Select the Memory menu item to either backup or restore your project, log data, recipe data and/or system memory. Selections can be made to backup to optional CompactFlash memory or USB pen drive memory. The menu selections also give the user the ability to clear the memory, and there is also a selection to reset all of the touch panel settings back to the original factory defaults.
Chapter Organization

The System Setup Screens chapter is organized in the following order:

1.) Accessing the system setup screens with no project loaded will take the user directly to the Main Menu – page 5-4.

2.) Accessing the system setup screens with a project loaded will first take the user to a dialog box warning the user that the panel will stop running and waits for an acknowledgement – page 5-5.
   a.) If a password is not enabled, the user is taken directly to the Main Menu after the warning message is acknowledged – page 5-6.
   b.) If a password is enabled, then the Enter Security Code keypad is presented after the warning message is acknowledged – page 5-6.

3.) How to enable a password in the C-more Programming software is explained – page 5-7.

4.) System Setup Screens organized as shown in the following flowchart:
Accessing the System Setup Screens (no project loaded)

To access the Main Menu of the touch panel System Setup Screens prior to downloading a project, press the extreme upper left corner of the panel display area for 3 seconds as shown below. The Main Menu will then be displayed as shown below.

**NOTE:** The ability to directly activate the Main Menu of the System Setup Screens by pressing the upper left corner of the touch panel for 3 seconds will only occur when there is no project loaded into the memory of the panel. Refer to the next section on accessing the System Setup Screens with a project loaded for procedure details and recommendations.
Accessing the System Setup Screens (with project loaded)

To access the Main Menu of the touch panel System Setup Screens with a project loaded into memory, press the upper left corner of the panel display area for 3 seconds as shown below.

The following WARNING dialog box will appear on the touch screen.

Dialog Box Actions:

- Pressing OK will display the system setup screen. See the WARNING below!
- Pressing Cancel will take you back to the project screen.
- Communications with the PLC is active while the Warning is displayed.
- The dialog box will close if no action is taken for 60 seconds.
- The dialog box will not display if the touch panel does not have a project loaded.
- The dialog box will not display if the System Screen password is enabled.

**WARNING:** Pressing OK at this point will STOP the PLC driver and therefore all communications between the touch panel and PLC will cease. It is strongly recommended that the password system tag “SYS SYSTEMSCREENPW” be enabled to add a safeguard step in accessing the system setup screens. See the next section for a quick overview for setting the System Tags in the Event Manager Database.
System Setup Screens (no password enabled)

If no password is enabled for the system setup screens, then pressing the OK button in the Warning dialog box will bring up the Main Menu as shown below. You can then proceed to the other system setup screens.

![Main Menu Screen]

System Setup Screens (password enabled)

**NOTE:** If the password system tag `SYS SYSTEMSCREENPW` is enabled, procedure described on the next page, then the **Enter Security Code** keypad shown below will be displayed. Entering the correct password code will then bring up the **Main Menu** system setup screen. If the wrong password code is entered, the keypad clear from its display the value entered and will stay present until the correct value is entered or the **Cancel** key is pressed.

![Enter Security Code Keypad]
System Setup Screens – Enable Password in Software

Under the C-more Programming Software’s Navigation window, select the Function tab, then select the Event Manager’s Database function to display the Event Manager Database shown below:

![Navigation Window]

Click on the Add button to add an event to the database that will be used to enable the System Screen Password.
System Setup Screens – Enable Password (cont’d)

The Event Add dialog box will be displayed as shown next:

Click on the Tag Name: pull down menu and select the internal **System Bit On** (SYS BIT ON) tag as shown. This will force the tag event type to be continuously active.
System Setup Screens – Enable Password (cont’d)

Use the Event Name: text box to document the event as “System Screen PW” for record keeping. This is optional.

In the Action box, click once on the displayed 01-Alarm under the Sequence List: so that 01-Alarm is highlighted. Then click the Delete Action button to remove the 01-Alarm.

The Sequence List will now be cleared out.
System Setup Screens – Enable Password (cont’d)

In the Action box, click on the Add Action... button. This will bring up the Add Action dialog box as shown below:

Click on the Command: pull down list in the Add Command box, select Tag from the list, then click OK.
System Setup Screens – Enable Password (cont’d)

A 01-Tag action item will then be added to the Sequence List.

Click on the Tag Name: pull down list down arrow in the Action box’s Tag tab, select SYS SYSTEMSCREENPW from the list, and click OK.

![Diagram showing the System Setup Screens interface with the 01-Tag action item added to the Sequence List and the SYS SYSTEMSCREENPW tag selected.]
System Setup Screens – Enable Password (cont’d)

Enter a numeric value into the Value: box, such as “777”. This value becomes the Password code to access the System Setup Screen’s Main Menu.

Click the Add button in the Event Add dialog box and then the Close button to return to the Event Manager Database. You now will see that the first event in the database is for the System Screen Password and it is enabled.
System Setup Screens Flowchart

Main Menu
[pag. 5-14]

Information
[pag. 5-15 to 5-18]

General/Memory/Ports/Error
[pag. 5-15 to 5-18]

Setting
[pag. 5-19]

Adjust Clock
[pag. 5-20]

Adjust Display
[pag. 5-21]

Adjust Touch Panel
(Touch Screen Calibration)
[pag. 5-22]

Beeper
[pag. 5-23]

IP Address Setting
(press upper left corner)
[pag. 5-24]

Test Menu
[pag. 5-25]

Test Touch Panel
[pag. 5-26]

Test Display
[pag. 5-27]

Test Communication Port
[pag. 5-28]

Test Beep/Sound
[pag. 5-33]

Memory
[pag. 5-35]

Backup
[pag. 5-37]

Restore
[pag. 5-44]

Clear Memory
[pag. 5-50]

Touch Screen Calibration
(press upper left corner)
[pag. 5-14]

Reset to Factory Default
[pag. 5-55]
Main Menu

The Main Menu system setup screen is the top layer in the menu structure.

The menu is displayed at full screen on the 6 inch touch panel models. It is displayed in the center on the 8, 10, 12, or 15 inch models.

### Item No. | Function | Description | Comment
--- | --- | --- | ---
1 | Information | Press to go to the Information Menu. |  
2 | Setting | Press to go to the Setting Menu. |  
3 | Test Menu | Press to go to the Test Menu. |  
4 | Memory | Press to go to the Memory Menu. |  
5 | Exit | Press to return to the user screen. |  
6 | Touch Screen Calibration | While the Main Menu system setup screen is being displayed, the extreme upper left corner of the touch panel can be pressed for 3 seconds to access the Touch Screen Calibration display. | This feature is only used if the touch panel data becomes corrupted and touching the Main Menu buttons does not work. It allows a shortcut to the touch panel calibration screen. |
The General tab under the Information menu provides detailed information of the C-more Touch Panels model, Panel Default Name based on Model type and MAC address, hardware, boot loader and firmware versions, etc.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Function</th>
<th>Description</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Panel Default Name</td>
<td>[Model Name]-01XXXX &quot;01 XXXX&quot; is the lower 3 bytes of the Mac Address MAX: 15 characters (15 bytes)</td>
<td>E.g., EA7-S6M-01004D This is the default name. The name can be changed in the C-more Programming Software.</td>
</tr>
<tr>
<td>4</td>
<td>Clock</td>
<td>Internal/External clock selection.</td>
<td>Configured in the C-more Programming Software.</td>
</tr>
<tr>
<td>5</td>
<td>Battery</td>
<td>Battery status, either OK or Battery Low.</td>
<td>Configurable in the Setting Menu – Beeper shown on page 5-23 or in the C-more Programming Software.</td>
</tr>
<tr>
<td>6</td>
<td>Beep</td>
<td>Enable/Disable the internal beeper.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Main Menu</td>
<td>Press to return to the Main Menu screen.</td>
<td>Main Menu shown on page 5-14.</td>
</tr>
</tbody>
</table>
# Information Menu – Memory tab

![Information Menu](image)

### C-more Memory Organization

<table>
<thead>
<tr>
<th>C-more Memory Organization</th>
<th>Description</th>
</tr>
</thead>
</table>
| 32 MB* SDRAM Memory        | Project and user data reside in SDRAM while the panel is powered. This data is backed-up internally (32 MB Internal Flash memory - not shown), and loaded/copied into SDRAM on power up. External Memory devices can also be used for back-up of C-more projects.
| 10 MB* Project Memory      | *Note: 12” and 15” units have:
|                            | ■ 64 MB SDRAM
|                            | ■ 64 MB Internal Flash Back-up
|                            | ■ 40 MB of Available Project Memory |
| 22 MB Reserved             | Alarm, Message, and PLC Log Data is buffered in SRAM pending transfer to an External Memory device:
|                            | ■ When the buffer nears full
|                            | ■ Periodically, every 5 minutes
|                            | ■ When one of the internal 'eject' tags is activated via an Object or Event
| 189 KB Log Buffer (11 KB per Object) | Use additional memory for:
| 33 KB Alarm Log/Count Buffer | ■ Project Transfers
| 32 KB Retentive Tag Data   | ■ Project Back-up/Restore
| 2 KB SRAM Index            | ■ Alarm Logging
|                            | ■ Message Logging
|                            | ■ Screen Captures
|                            | ■ PLC Data Logging
|                            | ■ Additional Font Storage
| 256 KB SDRAM Memory        | [C-more Memory Organization](#C-more-Memory-Organization)
|                            | Any capacity available
| 32 MB* SDRAM Memory        |
|                            |
| 256 KB SRAM Memory         | [C-more Memory Organization](#C-more-Memory-Organization)
|                            | Any capacity available
| 32 MB* SDRAM Memory        | [C-more Memory Organization](#C-more-Memory-Organization)
|                            | Any capacity available
| 256 KB SRAM Memory         | [C-more Memory Organization](#C-more-Memory-Organization)
|                            | Any capacity available

### Information Menu – Memory tab

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Function</th>
<th>Description</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SRAM System Memory</td>
<td>1.) Total: 2.) Usage: 3.) Free:</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Built-in Flash Memory</td>
<td>1.) Total: 2.) Usage: 3.) Free:</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Expansion Memory 1.) CF1: 2.) CF2: (only visible when present)</td>
<td>1.) Total: 2.) Usage: 3.) Free: Note: N/A - not available on base featured models (–R)</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Expansion Memory 3.) USB: (only visible when present)</td>
<td>1.) Total: 2.) Usage: 3.) Free:</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Main Menu</td>
<td>Press to return to the Main Menu screen.</td>
<td></td>
</tr>
</tbody>
</table>

---

C-more Memory Organization

- **C-more Memory Organization**
  - 32 MB* SDRAM Memory
  - 10 MB* Project Memory
  - 22 MB Reserved
  - 189 KB Log Buffer (11 KB per Object)
  - 33 KB Alarm Log/
  - 32 KB Retentive Tag Data
  - 2 KB SRAM Index
  - USB Flash Drive (USB Port Built-in)
  - CompactFlash Card (Slot #1 Built-in)
  - CompactFlash Card (Slot #2 Optional)

C-more Additional Memory

- **C-more Additional Memory** (Optional)
  - Any capacity available

C-more Internal Memory

- **C-more Internal Memory** (Built-in)
  - 256 KB SRAM Memory (Battery Backed)

Use additional memory for:

- Project Transfers
- Project Back-up/Restore
- Alarm Logging
- Message Logging
- Screen Captures
- PLC Data Logging
- Additional Font Storage

**Size of unit displayed:**

1.) KB
   - When size is 1 to 999 bytes, it will be shown as 1KB.
2.) KB or MB
3.) MB or GB
## Information Menu – Ports tab

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Function</th>
<th>Description</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>COM (Built-in Ports)</td>
<td>PLC Serial Communications Port Settings: baud rate/party/data bit, stop bit</td>
<td>Configured in the <strong>C-more</strong> Programming Software.</td>
</tr>
</tbody>
</table>
| 2        | Ethernet (Built-in Ports) | Ethernet Settings: MAC Address: 00 D0 7C 01 XX XX  
Address Type: DHCP/Static  
IP Address: 172.22.7.8  
Subnet Mask: 255.255.0.0  
Default Gateway: 172.22.4.1  
DNS: 1.) Automatically 2.) Use Designated Address  
Note: N/A - not available on base featured models (–R) | Configurable in the **Setting Menu – IP Address Setting** shown on page 5-24 or in the **C-more** Programming Software. |
| 3        | Ethernet (CF1 Slot)   | Future                                                                       | Future                                                                  |
| 4        | Main Menu             | Press to return to the **Main Menu** screen.                               |                                                                        |
Information Menu – Error tab

Error message format:

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Function</th>
<th>Description</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Date</td>
<td>Format: MM/DD/YY</td>
<td>Date error occurred.</td>
</tr>
<tr>
<td>2</td>
<td>Time</td>
<td>Format: HH/MM/SS</td>
<td>Time error occurred.</td>
</tr>
<tr>
<td>3</td>
<td>Error Port</td>
<td>PLC Serial Communications Port: Ethernet:</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Device Name</td>
<td>The assigned device name in the programming software.</td>
<td>Configurable in the C-more Programming Software Panel Manager</td>
</tr>
<tr>
<td>5</td>
<td>Error Type</td>
<td>RD: Read  WT: Write</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>PLC Address</td>
<td>The assigned address of the PLC that caused the error.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Access Bytes</td>
<td>The number of access bytes.</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Error Message</td>
<td>The error message is the same as the message displayed in the upper left of the C-more touch panel's display.</td>
<td>A list of Error Messages is shown in Appendix A</td>
</tr>
</tbody>
</table>

Order of error message functions:
Error Number, Date, Time, Error Port, Device Name, Error Type, PLC Device, Access Bytes, Error Message

Error message navigation buttons:

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Function</th>
<th>Description</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Clear</td>
<td>Press to clear all error messages. This button is grayed out when there are no error messages to display.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Page Down</td>
<td>Press to go to the next page. This button is grayed out when there is no error messages on the next page.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Page Up</td>
<td>Press to go to the previous page. This button is grayed out when there is no error messages on the previous page.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Main Menu</td>
<td>Press to return to the Main Menu screen.</td>
<td></td>
</tr>
</tbody>
</table>
## Setting Menu

The **Setting Menu** is used to adjust the time & date, adjust the contrast or brightness of the display depending on which model is being used, adjust (calibrate) the touch screen, and enable or disable the internal beeper.

### Setting Menu

![Setting Menu Diagram]

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Function</th>
<th>Description</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Adjust Clock</td>
<td>Press to go to the <strong>Adjust Clock</strong> screen.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Adjust Display</td>
<td>Press to go to the <strong>Adjust Display</strong> screen.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Adjust Touch Panel</td>
<td>Press to go to the <strong>Adjust Touch Panel</strong> screen.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Beeper</td>
<td>Press to go to the <strong>Adjust Beeper</strong> screen.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Main Menu</td>
<td>Press to return to the <strong>Main Menu</strong> screen.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>IP Address setting</td>
<td>While the <strong>Setting Menu</strong> system setup screen is being displayed, the extreme upper left corner of the touch panel can be pressed for 3 seconds to access the IP Address setting screen.</td>
<td>The IP Address setting screen is only accessible from the <strong>Setting Menu</strong> screen as described. There is no direct button to call it from any of the setup screens. The IP Address can also be assigned in the <strong>C-more</strong> Programming Software.</td>
</tr>
</tbody>
</table>

![Setting Menu Diagram with IP Address Setting]

---

Setting – Adjust Clock

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Function</th>
<th>Description</th>
<th>Comments</th>
</tr>
</thead>
</table>
| 1        | Select   | **Time:** Each press of the Select button will cycle thru the following settings. 1.) No Selection to Hours 2.) Hours to Minutes 3.) Minutes to Seconds 4.) Seconds back to Hours  
**Date:** Each press of the Select button will cycle thru the following settings. 1.) Month to Day 2.) Day to Year 3.) Year back to Month |          |
| 2        | Up       | Press to increment the value by “1” with each press. |          |
| 3        | Down     | Press to decrement the value by “1” with each press. |          |
| 4        | OK       | Press to accept the changes. |          |
| 5        | Cancel   | Press to return to the Setting Menu screen without accepting the changes. |          |

**NOTE:** The function buttons used to adjust the clock settings on the panel’s setup screen are **disabled** if an **External** clock source is selected in the **C-more** programming software. The choice of an internal or external clock source is available by selecting **Clock Source** in the **C-more** programming software under the **Main Menu** drop down function **Setup**.

**NOTE:** The panel’s clock can also be adjusted from the **C-more** programming software. The **Adjust Clock** function can be accessed in the software by selecting **Adjust Clock** under the **Main Menu** drop down function **Panel** or selecting **Adjust Clock** under the **Panel** tab in the software’s **Navigation** window.
Setting – Adjust Display

The STN type display models can have the contrast adjusted. The TFT type display models can have the brightness adjusted. See the table below.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Function</th>
<th>Description</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Up</td>
<td>Press to increment the value by “1” with each press.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Down</td>
<td>Press to decrement the value by “1” with each press.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>OK</td>
<td>Press to accept the changes.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Cancel</td>
<td>Press to return to the Setting Menu screen without accepting the changes.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Selection Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Brightness</strong></td>
<td><strong>Contrast</strong></td>
<td><strong>Brightness</strong></td>
</tr>
<tr>
<td>TFT Models: EA7-T6CL-R, EA7-T6CL, EA7-T6C, EA7-T8C, EA7-T10C, EA7-T12C &amp; EA7-T15C</td>
<td>1 to 7</td>
<td>N/A</td>
</tr>
<tr>
<td>STN Grayscale: EA7-S6M-R &amp; EA7-S6M</td>
<td>N/A</td>
<td>1 to 7</td>
</tr>
</tbody>
</table>
Setting – Touch Screen Calibration

This procedure is used to calibrate the touch screen to ensure accuracy of the touch areas. There are five points on the touch screen that the calibration is based around. The adjustment relies on very narrow areas for the calibration points.

NOTE: The panel will display the Touch Screen Calibration window on power up until the calibration procedure is completed and saved.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Function</th>
<th>Description</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Points 1a thru 1e</td>
<td>The touch screen calibration crosshairs will appear individually in the order of point 1a thru 1e respectively as each proceeding crosshair is pressed.</td>
<td>If the touched co-ordinate point is too far off from normal, then the procedure will return to Point 1a.</td>
</tr>
<tr>
<td>2</td>
<td>Cancel</td>
<td>Press to return to the Setting Menu screen without accepting the changes.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Press here to save &amp; quit.</td>
<td>Press to accept the changes and return to the Setting Menu screen.</td>
<td>If you do not save, you will have to calibrate the panel again after the next power cycle.</td>
</tr>
<tr>
<td>4</td>
<td>Press here to retry.</td>
<td>The current adjustment data is canceled and the procedure is returned to point 1a.</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: The panel will display the Touch Screen Calibration window on power up until the calibration procedure is completed and saved.
Setting – Beeper

This system setup screen function is used to enable or disable the touch panel’s internal beeper.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Function</th>
<th>Description</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Yes</td>
<td>Change Enable to Beeper.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>No</td>
<td>Change Disable to Beeper.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>OK</td>
<td>Press to accept the changes and return to the Setting Menu screen.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Cancel</td>
<td>Press to return to the Setting Menu screen without accepting the changes.</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** The project settings in the C-more programming software Panel Manager will override the touch panel’s internal setting upon initial download.
Chapter 5: System Setup Screens

Setting – IP Address Setting

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Function</th>
<th>Description</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DHCP</td>
<td>&quot;DHCP&quot; is enabled as the default when this system setup screen is first selected. All of the other selections on this screen are dimmed when &quot;DHCP&quot; is selected and are not available.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>IP Address</td>
<td>The “Use the following IP Address” setting is selected when its radio button is pressed. An IP Address can be assigned as follows: 1.) Select the address type: a.) IP Address b.) Subnet Mask c.) Default Gateway 2.) Use the numerical keypad to input the address. Use the decimal key to enter the dot separator. 3.) Press the “ENT” key when finished with each field. Note: If an Ethernet cable is not connected to the touch panel from an active Ethernet device, then the IP Address will show as 0.0.0.0.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>IP Address</td>
<td>Select the field that needs to be assigned by touching the entry value and use the keypad to enter the desired address.</td>
<td>Each field can be independently assigned.</td>
</tr>
<tr>
<td></td>
<td>Subnet Mask</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Default Gateway</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Keypad</td>
<td>The keypad is used to enter the Address: Use the numeric keys and the “dot” key to enter the address, e.g: 192.168.10.1 “ENT” = Enter key sets value “CL” = Clear value entered “DEL” = Delete 1 character with each press The “ENT” key must be pressed to accept the entry. If the “ENT” key is not pressed, then the previous value will remain when another area is selected or the “Cancel” key is pressed.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>OK</td>
<td>Press to accept the changes and return to the Setting Menu screen.</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Cancel</td>
<td>Press to return to the Setting Menu screen without accepting the changes.</td>
<td></td>
</tr>
</tbody>
</table>
## Test Menu

The **Test Menu** gives the user the ability to test the operation of the touch screen, test the LCD display, test the various communication ports, and also test the internal beeper and the audio line out through an user supplied amplified (stereo) speaker(s).

![Test Menu Diagram](image)

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Function</th>
<th>Description</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Test Touch Panel</td>
<td>Press to go to the Test Touch Panel screen.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Test Display</td>
<td>Press to go to the Test Display screen.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Test Communication Port</td>
<td>Press to go to the Test Communication Port screen.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Test Beep/Sound</td>
<td>Press to go to the Test Beep/Sound screen.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Main Menu</td>
<td>Press to return to the Main Menu screen.</td>
<td></td>
</tr>
</tbody>
</table>
Test Menu – Test Touch Panel

Using this test, normal or unusual operation of the analog touch panel can be determined.

Testing:

If an area of the touch screen is suspected to be inoperable, touch that area of the screen while in the Test Touch Panel screen mode. The screen pixels should turn black in that area. If the screen pixels do not turn black when touched, then the touch screen is defective or needs to be calibrated. See Setting - Adjust Touch Screen on page 5-22.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Function</th>
<th>Description</th>
<th>Comments</th>
</tr>
</thead>
</table>
| 1        | Touch area | Display Size | Touch Area
|          |          | 6 Inch | 320 X 240 |
|          |          | 8/10 Inch | 640 X 480 |
|          |          | 12 Inch | 800 X 600 |
|          |          | 15 Inch | 1024 X 768 |
| 2        | Cancel   | Press to return to the Test Menu screen. | Both the title bar (Test Touch Panel) and Cancel button can be drawn across to test the touch operation. |

Note: The Touchscreen is designed to respond to a single touch. If it is touched at multiple points at the same time, an unexpected object may be activated.
Test Menu – Test Display

There are two different test patterns that may be run on the LCD display to allow the user to check for display screen defects. If the screen is not touched within 3 seconds of Test Pattern 1 being displayed, then Test Pattern 2 will be displayed until the screen is touched, otherwise Test Pattern 1 will remain until cancelled.

Test Pattern 1 displays a test pattern of 16 grayscale graduations and RGB colors.

Test Pattern 2 will follow the pattern as shown in the following chart with the color wiping across the screen in the direction indicated by the arrows, then repeats:

<table>
<thead>
<tr>
<th>Color</th>
<th>1st Time</th>
<th>2nd Time</th>
<th>3rd Time</th>
<th>4th Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>RED</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GREEN</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BLUE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Test Results: If any pixels on the screen do not appear the same color as the surrounding pixels, the LCD screen may be defective. A single pixel gone bad is relatively common. Surrounding pixels going bad over time is another indication the LCD screen may be defective.
Test Menu – Test Communication Ports: Serial

The following test can be used to check the operation of the serial communication port, with the use of a loop back connector and can also check the status of the serial communications to any connected and configured PLC.

Continued on the next two pages.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Function</th>
<th>Description</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Loop Back Test</td>
<td>This function checks the serial comm port for proper operation with a loop back connector.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>PLC Enquiry Test</td>
<td>This function allows the ability to select any PLC that may be connected to the touch panel via a serial connection and checks to see if the communications are working correctly.</td>
<td>Note: The PLC serial communications port settings must be configured in the C-more programming software.</td>
</tr>
<tr>
<td>3</td>
<td>Cancel</td>
<td>Press to return to the Test Menu screen.</td>
<td></td>
</tr>
</tbody>
</table>

RS-232 Loop-back Connector

Wiring Diagram

RS-422/485 Loop-back Connector

Wiring Diagram
Test Menu – Serial Port Test

PLC Serial Comm Port – Loop Back Test

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Function</th>
<th>Description</th>
<th>Comments</th>
</tr>
</thead>
</table>
| 1       | Determine Loop Back Connector | 1.) When testing an RS-232C serial connection, connect pin 2 to 3 and pin 7 to 8 on an appropriate D-SUB 15-pin male connector and plug it into the serial PLC comm port on the rear of the touch panel.  
2.) When testing an RS-422 or RS-485 serial connection, connect pin 9 to 11, pin 10 to 12 and pin 7 to 8 on an appropriate D-SUB 15-pin male connector and plug it into the serial PLC comm port on the rear of the touch panel. |                                                                                                                                                                                                          |
| 2       | Start Test             | Press the **Loop Back Test** button to start the serial comm port test.                                                                                                                                        |                                                                                                                                                                                                          |
| 3       | Test Results           | 1.) Bytes Sent: The number of bytes sent after a test is started.  
2.) Receive Counts: The number of bytes which are received after the test is started.  
3.) Error Counts: The number of bytes which have not been received after the test is started.  
4.) RTS/CTS Test: Pass/Fail  
RTS is turned on and if CTS receives the signal then the test shows “Pass”, otherwise the test shows “Fail”. | Note: The test will continue to run until the **Cancel** button is pressed.  
If there are any error counts, check the loop back connector. If it is OK, call Tech Support.                                                                                       |
| 4       | Cancel                 | Press to return to the **Test Comm. Port** screen.                                                                                                                                                        |                                                                                                                                                                                                          |
Test Menu – PLC Enquiry Test: Serial Connection

This function allows the ability to select any PLC that may be connected to the touch panel through a serial comm. port connection and checks to see if the communications are working correctly.

**Note:** The communications protocol for the PLC being selected must be configured the same as the C-more touch panel. The touch panel’s PLC serial communications are configured using the C-more Programming Software’s Panel Manager.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Function</th>
<th>Description</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Select PLC</td>
<td>Select any PLC that is shown in the drop down menu. The PLC selected will connect to the touch panel at the time of a test.</td>
<td>Only PLC’s that have been configured in the C-more Programming Software will appear in the Select PLC: list.</td>
</tr>
<tr>
<td>2</td>
<td>PLC Enquiry Test</td>
<td>Four test read packets are sent to the selected PLC. Test result will be either Pass or Fail.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Cancel</td>
<td>Press to return to the Test Menu screen.</td>
<td></td>
</tr>
</tbody>
</table>

**Test Menu – PLC Enquiry Test: Serial Connection**

![Diagram of Test Menu - PLC Enquiry Test](image-url)
Test Menu – Test Communication Ports: Ethernet

The following test feature can be used to check the operation of the Ethernet communication port by indicating if an Ethernet link has been established or not, and can also check the status of the Ethernet communications to any connected PLC.

Base featured models (-R) do not include an Ethernet port, therefore this check is not displayed.

**Note:** The communications protocol for the PLC being selected must be configured the same as the C-more touch panel. The touch panel's PLC serial communications are configured using the C-more Programming Software’s Panel Manager.

### Item No. | Function | Description | Comments
--- | --- | --- | ---
1 | Ethernet Connected | This area displays information to whether an Ethernet link has been established for the touch panel's Ethernet comm port or not. Displays panel’s IP address and shows whether it is static or assigned by a DHCP server. |  
2 | PLC Enquiry Test | This function allows the ability to select any PLC configured in the project that may be connected to the touch panel via an Ethernet connection and checks to see if the communications are working correctly. |  
3 | Cancel | Press to return to the Test Menu screen. |  

**Example of displayed message when the touch panel’s Ethernet port is not connected.**

**Typical Ethernet connection with Ethernet switch.**
Test Menu – PLC Enquiry Test: Ethernet Connection

This function allows the ability to select any PLC configured in the project that may be connected to the touch panel through an Ethernet port connection and checks to see if the communications are working correctly.

Note: The communications protocol for the PLC being selected must be configured the same as the C-more touch panel. The touch panel’s PLC serial communications are configured using the C-more Programming Software’s Panel Manager.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Function</th>
<th>Description</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Select PLC</td>
<td>Select any PLC that is shown in the drop down menu.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>PLC Enquiry Test</td>
<td>The following are the steps that the Ethernet PLC Enquiry Test performs:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.) Ping the network 4 times for the PLC selected.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.) Four of the test read packets are sent to the selected PLC.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Test result will be either Pass or Fail.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>However, if the result of pinging the network shows an error, the test is stopped.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Cancel</td>
<td>Press to return to the Test Menu screen.</td>
<td></td>
</tr>
</tbody>
</table>
# Test Menu – Test Beep/Sound

![Test Beep/Sound Image]

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Function</th>
<th>Description</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Beep Test</td>
<td>The internal Beep can be tested from this system setup screen whether the Beep is enabled or disabled. After the Beep Test button is pressed then released, the Beep will sound for 500 msec.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Cancel</td>
<td>Press to return to the Test Menu screen.</td>
<td></td>
</tr>
</tbody>
</table>
Test Menu – Test Beep/Sound (cont’d)

WARNING: Hearing damage may occur if the volume on the user supplied external amplified speaker is set too high.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Function</th>
<th>Description</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Speaker Test</td>
<td>The Speaker Test function requires that a speaker(s) with an amplifier (can be stereo) be connected to the Audio Line Out stereo jack on the rear of the touch panel. After the Speaker Test button is pressed then released, a system provided Test.WAV file will play once.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Cancel</td>
<td>Press to return to the Test Menu screen.</td>
<td></td>
</tr>
</tbody>
</table>
The user’s project, system, log and recipes files can be backed up and restored to either a CompactFlash memory card (CF1 or CF2), or a USB memory device. From this menu the user can also clear the project log files. The user also has the ability to clear the memory within the C-more touch panel.

Base featured models (-R) do not include CF1 or CF2.

### Memory Menu

![Memory Menu Diagram]

The user’s project, system, log and recipes files can be backed up and restored to either a CompactFlash memory card (CF1 or CF2), or a USB memory device. From this menu the user can also clear the project log files. The user also has the ability to clear the memory within the C-more touch panel.

Base featured models (-R) do not include CF1 or CF2.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Function</th>
<th>Description</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Backup</td>
<td>Backup project, system, log &amp; recipe files to the following memory devices:</td>
<td>Any USB 1.1 pen drive or CompactFlash memory device capacity available is supported.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>USB port - Type A: USB pen drive</td>
<td>The backup data files are created and copied to a folder on the memory device named “EA_Memory Copy.”</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CF Slot #1 (standard port): CompactFlash</td>
<td>The project file is named StartupStorage.eas.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CF Slot #2 (optional port): CompactFlash</td>
<td>“Log” and “Recipe” folders with the appropriate data files are also created on the memory device.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>See page 5-37 for details.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Restore</td>
<td>Restore project, system, log &amp; recipe files to the internal memory from one of the following memory devices:</td>
<td>A folder on the memory device named “EA_Memory Copy” must exist containing a file named “StartupStorage.eas”. The project data file is stored in this file, and if the system data file was backed up, it also will be stored in this file. Any backed up log or recipe data files will be located under the appropriate “Log” or “Recipe” folders.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>USB port - Type A: USB pen drive</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CF Slot #1 (standard port): CompactFlash</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CF Slot #2 (optional port): CompactFlash</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>See page 5-44 for details.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Clear Memory</td>
<td>Clear selected data files from the memory of the following internal memory or external memory devices:</td>
<td>Can only clear project, log and recipe data files of the Built-in FLASH memory. Can clear entire contents or individual data files of external memory devices.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Built-in FLASH Memory</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>USB port - Type A: USB pen drive</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CF Slot #1 (standard port): CompactFlash</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CF Slot #2 (optional port): CompactFlash</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>See page 5-50 for details.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Reset to Factory Default</td>
<td>The touch panel’s internal memory is set to the original factory defaults.</td>
<td>Clears all project memory.</td>
</tr>
<tr>
<td>5</td>
<td>Main Menu</td>
<td>Press to return to the Main Menu screen.</td>
<td></td>
</tr>
</tbody>
</table>
Project Executed from CompactFlash (CF Slot #1)

If a CompactFlash card is located in the CF1 slot at the time a project is transferred to the panel, the project will be stored on the CompactFlash card, not in the internal Built-in FLASH memory.

If CF1 slot contains a CompactFlash with a project and:
1.) The touch panel’s power is cycled, then
2.) The project file stored on the CompactFlash is loaded into the touch panel’s internal DRAM memory and executed. Please note that the project stored in the panel’s internal FLASH memory is NOT loaded into the internal DRAM memory when a CompactFlash memory card is present. Any project in the internal FLASH memory is cleared.

**Warning:** During power up with a CompactFlash plugged into the CF1 Slot, please do not remove the memory card from the slot. Damage to the CompactFlash and possibly the touch panel may result.

**Warning:** After a firmware update, the project files which are located in either the touch panel’s internal FLASH memory or the CompactFlash plugged into CF1 Slot are cleared. The programming software will need to be used to Transfer the project file back into the panel. If you wish to retain the project on the CompactFlash, power down the panel and remove the CompactFlash before performing a firmware upgrade.

Increasing Project Memory Size using a CompactFlash in CF1 Slot:

If a project is transferred to the panel with a CompactFlash card in CF1 Slot, the Font and Recipe data files are not included in the 10MB (40MB for 12” and 15” models) project size. Therefore using CF1 can allow a project to be loaded that is larger than 10MB if the excessive size is caused by Fonts and/or Recipe Sheets.
Memory – Backup

The Memory - Backup selection allows you to backup the panel’s Project, Log files, Recipe files or even the System (firmware & OS) files to either a CompactFlash (CF) or USB pen drive. The available memory devices will be displayed showing the total and free available memory for that device. If the device is not available, it will be grayed out. The Next button is grayed out until a device is selected.

The Cancel button can be pressed at any time to return to the Memory Menu screen.

This is an example of a USB memory device selected to be used for backing up the panel’s data file(s).

The selected device is highlighted. Pressing again un-selects it.

When there are more than two available backup devices, the one selected will be highlighted. If there is only one available memory device, it still needs to be highlighted in order to go to the next step.

Press the Next button to continue to Step 2.

Note: If you have a memory device inserted into the proper port on the touch panel, but it doesn’t show up as highlighted in Step 1 of the Backup setup screen, then try a different device to determine if the memory device is defective or if there is a possible problem with the memory device connection. It may not be compatible with the panel. This rarely happens with CF memory, but some USB pen drives are not USB 1.1 compatible and will not work with C-more touch panels. Also, some USB pen drives may take several minutes before they are recognized by the panel.

Please read the explanation for the availability of CF1 under different conditions as shown on the next two pages.
Memory – Backup (cont’d)

CF1 Availability Explanation:

If there is no CompactFlash inserted into CF1 Slot, then the CF1 button’s Total and Free memory will show as N/A and be grayed out.

If the panel is powered up or rebooted with a CompactFlash inserted into CF1 Slot, then the CF1 button’s Total and Free memory will be displayed.
Memory – Backup (cont’d)

CF1 Availability Explanation (cont’d):

If a CompactFlash is inserted into CF1 Slot and a project is transferred using the C-more Programming Software’s Project Transfer utility Panel > Transfer, then the CF1 will not show up in the Memory - Backup Step 1 device choices. The CompactFlash will have the runtime files stored on it that get loaded into the touch panel’s internal DRAM memory when powered up or rebooted.

Below is an example of the folder and file structure that is stored on the CompactFlash in the CF1 Slot for a project that was directly transferred from the C-more Programming Software’s Project Transfer function when viewed in Windows® Explorer on a PC.
Memory – Backup (cont’d)

Note: The following definitions are for the various file types that can be backed up:

Project data – consists of the actual developed project data that is created in the C-more programming software and includes all functionality, objects, screens, tag names, labels, comments, graphics, etc. Included in backup file name StartupStorage.eas.

Recipe data – consists of all the data values and labels that have been created for the various recipe sheets. Includes all recipe sheets loaded to the panel. Only recipe sheets used in the project are loaded to the panel.

System data – consists of the operating system, firmware and run time files. Included in backup file name StartupStorage.eas.

Log data – consists of the Alarm Log, Message Log and Trend Data Logging files.

Select the data file(s) to be backed up by pressing the appropriate data file button. The selection will be highlighted.

Pressing the highlighted data file button again will turn it off.

The Next >> button will stay grayed out until at least one data file is selected.

Any file type not available will be grayed out.

This is an example of data files selected for backing up.

The selected data files are highlighted.

The Next >> button is now enabled.

Pressing Cancel will return to the previous menu.

Press the Next button to continue.

Note: In the case of the Project and System files, these can be Restored later to another panel.

In the case of the Recipe files, they can be edited externally from the panel and then Restored to the panel.

The Log files are for viewing purposes only.

See Page 5-44 for instructions on Restoring the Project, System and or Recipe files to a Panel.
Memory – Backup (cont’d)

Backup Data Files Naming and Organization

The following graphic shows how the various data files are organized on the memory device when doing a **Backup** and also the file naming convention that is used when viewed in Windows® Explorer on a PC.
Memory – Backup (cont’d)

The next system setup screen allows the verification of the data file selections. When the OK button is pressed, the backup begins.

The user can return to the previous screen by pressing the << Prev button.

This message is displayed during the Backup copying process. Press the Cancel button to abort the backup.

The following text is shown in the copying progress message box:

Copy to USB Memory:
“Please do not Power Off or Remove USB”

Copy to CF1 or CF2:
“Please do not Power Off or Remove CF”

**WARNING:** During the copying process, Do not power off the touch panel or remove the memory device.

This message is displayed to indicate the Backup is complete. Press the OK button to return to the previous menu selection.
Memory – Backup (cont’d)

Warning Messages
If the destination does not have enough space to store the selected memory size, then the message shown here will be displayed. Press the OK button to clear the warning message.

The warning message will read “Not enough Memory Space in %Device%.”
%Device% will show either “CF1”, “CF2”, or “USB”.

This warning message will be displayed if the backup Memory device fails or is removed during the backup. Press the OK button to clear the warning message.

The warning message will read “Backup Failed. %Device% cannot be found”.
%Device% will show either “CF1”, “CF2”, or “USB”.
Refer to Chapter 8: Troubleshooting for additional help.

For any other reason the backup fails, then this warning message will be displayed. Press the OK button to clear the warning message.

The warning message will read “Backup Failed”.

Refer to Chapter 8: Troubleshooting for additional help.
Memory – Restore

The Memory - Restore function is used to:
1.) Restore a project previously backed up on a CompactFlash card or USB pen drive memory device to the same panel. See Memory - Backup on page 5-37.
2.) Copy a project from one panel to another panel using a memory device to physically transport the data files.
3.) Restore a project into the panel that was transferred to an “External Memory Device” using the C-more Programming Software.
4.) Restore Recipe Sheet(s) previously backed up to a memory device or copied to the memory device using a PC.

The available memory devices will be displayed showing the total and free available memory for that device. If the device is not available, it will be grayed out. The Next button is grayed out until a device is selected.

The Cancel button can be pressed at any time to return to the Memory Menu screen.

This is an example of a USB memory device selected to be used for restoring the data file(s).

The selected device is highlighted. Pressing again unselects it.

When there are more than two available restore devices, the one selected will be highlighted. If there is only one available memory device, it needs to be highlighted in order to go to the next step.

Press the Next button to continue to continue to Step 2.

Note: If you have a memory device inserted into the proper port on the touch panel, but it doesn’t show up as highlighted in Step 1 of the Restore setup screen, then try a different device to determine if the memory device is defective or if there is a possible problem with the memory device connection. It may not be compatible with the panel. This rarely happens with CF memory, but some USB pen drives are not USB 1.1 compatible and will not work with C-more touch panels. Also, some USB pen drives may take several minutes before they are recognized by the panel.
Memory – Restore (cont’d)

Please read the explanation for the availability of CF1 under different conditions as shown on this page and the next.

**CF1 Availability Explanation:**

If there is no CompactFlash inserted into CF1 Slot, then the CF1 button’s Total and Free memory will show as N/A and be grayed out.

If the panel is powered up or rebooted with a CompactFlash inserted into CF1 Slot, then the CF1 button’s Total and Free memory will be displayed.
CF1 Availability Explanation (cont’d):
If a CompactFlash is inserted into CF1 Slot and a project is transferred using the C-more Programming Software’s Project Transfer utility Panel > Transfer, then the CF1 will not show up in the Memory - Backup Step 1 device choices. The CompactFlash will have the runtime files stored on it that get loaded into the touch panel’s internal DRAM memory when powered up or rebooted.

See page 5-39 for an example of the folder and file structure that is stored on CF1.

Note: The following definitions are for the various file types that can be backed up:
Project data – consists of the actual developed project data that is created in the C-more programming software and includes all functionality, objects, screens, tag names, labels, comments, graphics, etc. Included in backup file name StartupStorage.eas.
Recipe data – consists of all the data values and labels that have been created for the various recipe sheets. Includes all recipe sheets loaded to the panel. Only recipe sheets used in the project are loaded to the panel.
System data – consists of the operating system, firmware and run time files. Included in backup file name StartupStorage.eas.
Log data – consists of the Alarm Log, Message Log and Trend Data Logging files.
Memory – Restore (cont’d)

Select the data file(s) to be restored by pressing the appropriate data file button. The selection will be highlighted. The data file can be either the Project, System and/or Recipe files. The selected data is restored to the internal built-in FLASH memory if there is no CompactFlash memory card inserted into the CF1 slot.

Pressing the highlighted data file again will turn it off.

The Next >> button will stay grayed out until at least one data file is selected.

Any file type not available will be grayed out.

This is an example of a file selected to restore.

The selected file is highlighted.

The Next >> button is now enabled.

Pressing Cancel will return to the previous menu.

Note: The following definitions are for the various file types that can be backed up:
Project data – consists of the actual developed project data that is created in the C-more programming software and includes all functionality, objects, screens, tag names, labels, comments, graphics, etc. Included in backup file name StartupStorage.eas.
Recipe data – consists of all the data values and labels that have been created for the various recipe sheets. Includes all recipe sheets loaded to the panel. Only recipe sheets used in the project are loaded to the panel.
System data – consists of the operating system, firmware and run time files. Included in backup file name StartupStorage.eas.
Log data – consists of the Alarm Log, Message Log and Trend Data Logging files.

Press the Next button to continue.
Memory – Restore (cont’d)

The data selected to restore is checked. If the data is good, then the OK button can be pressed to start the restore.

If there is a problem with the data, the OK button will remain grayed out and the user can return to the previous screen by pressing the << Prev button.

The problem could be caused by a corrupted data file. See Chapter 8: Troubleshooting for additional help.

This message is displayed during the Restore process. Press the Cancel button to abort the backup.

The following text is shown in the copying progress message box:

Copy to USB Memory:
“Please do not Power Off or Remove USB”

Copy to CF1 or CF2:
“Please do not Power Off or Remove CF”

**WARNING:** During the copying process, Do not power off the touch panel or remove the memory device.

This message is displayed to indicate the Restore is complete. Press the OK button to return to the previous menu selection.
Warning Messages:
If the system memory does not have enough space to restore the selected memory size, then the message shown here will be displayed. Press the OK button to clear the warning message.

The warning message will read “Not enough Memory Space in System Memory”.

The Project size must be less than 10 MByte for 6”-10” panels and less than 40 MByte for 12” & 15” panels.

This warning message will be displayed if the restore Memory device fails or is removed during the backup. Press the OK button to clear the warning message.

The warning message will read “Restore Failed. %Device% cannot be found”.

%Device% will show show “CF1”, “CF2”, or “USB”.

Try using a different device with known good data in the same connector or using the device that is causing the error in a different connector.

For any other reason the restore fails, then this warning message will be displayed. Press the OK button to clear the warning message.
Memory – Clear Memory

This function is used to clear individually selected data files, or all data files, within the panel’s Built-in Memory, or any installed memory device such as a USB pen drive, CompactFlash (CF1 or CF2).

Select the memory device to clear. If the device is not available, it will be grayed out.

The Next button is grayed out until a device is selected.

The selected device is highlighted. Pressing again un-selects it.

When there are more than two available backup devices, the one selected will be highlighted. If another is selected, then the highlight will change to the last one pressed. Only one device can be selected at a time.

Press the Next button to continue.
Memory – Clear Memory (cont’d)

Select the data file(s) to be cleared. This is an example of CF1, CF2 or USB memory that was selected in Clear Memory - Step-1.

The selected file will be highlighted. Pressing again un-selects it. The Next >> button will stay grayed out until file(s) are selected.

Selecting Clear All will erase all files located on the memory device.

This is an example of Built-in Memory that was selected in Clear Memory - Step-1.

Notice the ability to select either the Project file, Log files, Recipe files, or the System files.

**Note:** System files can not be cleared from the internal memory.

This is an example of the Project data file being selected for clearing.

The selected memory area is highlighted. Pressing again un-selects it. The Next >> button is now enabled.

Pressing Cancel will un-select the file(s).

Press the Next button to continue.
Memory – Clear Memory (cont’d)

The data file(s) selected to clear are checked. If the data file is good, then the OK button can be pressed to start the clear procedure.

If there is a problem with the data file, the OK button will remain grayed out and the user can return to the previous screen by pressing the << Prev button.

Press the OK button to continue.

This message is displayed during the clearing process. Press the Cancel button to abort the clearing.

The following text is shown in the clearing process message box:

- Clearing Built-in Memory: “Please do not Power Off”
- Clearing USB Memory: “Please do not Power Off or Remove USB”
- Clearing CF1 or CF2: “Please do not Power Off or Remove CF”

**WARNING:** During the clearing process, do not power off the touch panel or remove the memory device.

The following message is displayed when the clearing process is complete:

- “%Device% cleared”

%Device% will show either “CF1”, “CF2”, or “USB”.

Press the OK button to return to the Memory Menu screen.
Memory – Clear Memory (cont’d)

The following is an example of Clear All selected for clearing.

The selected device is highlighted.

The Next >> button is now enabled.

Pressing Cancel will un-select the Clear All.

Note: If Clear All is selected, all files will be erased from the memory device, even those not related to the C-more touch panel.

The data file(s) selected to clear are checked. If the data file is good, then the OK button can be pressed to start the clear procedure. If there is a problem with the data file, the OK button will remain grayed out and the user can return to the previous screen by pressing the << Prev button.

Press the OK button to continue.

The warning message shown here will be displayed to give the user the opportunity to decide if they want to proceed or not.

Press the OK button to continue.

The Clear All process will start with a warning message as seen in the first example and continue until a message saying the device is cleared or a warning message as shown on the next page will appear.
Memory – Clear Memory (cont’d)

The warning message shown here will be displayed if the clearing process fails. “Clear Failed”.

Press the OK button to return to the Clear Memory screen and try again.

If the selected memory still fails to clear, then refer to Chapter 8: Troubleshooting for additional help.
Memory – Reset to Factory Default

After pressing the Reset to Factory Default button from the Memory Menu, the message box shown will be displayed.

Resetting to the Factory Defaults produces the following actions:

1.) The touch screen calibration is reset to the Factory Defaults.
2.) The project file is cleared.
3.) The log, recipe & WAV files are cleared.
4.) The IP address is set to DHCP.

**WARNING:** Please make a backup file to either a CF or USB memory device using the Memory Backup function before resetting to the Factory Defaults as a precautionary measure.

The message shown here is displayed once the Factory Default values have been stored into the system memory.

Press OK to continue.

After pressing OK, the touch panel will reboot and startup on the Touch Screen Calibration procedure as shown here.

The following note is also shown on the calibration screens to remind the user that the Project File has been cleared, there’s no communications with the PLC, and the calibration procedure must be performed in order to ready the panel to download a project:

Note: The panel will not communicate or run its project in this mode.

Also, the C-more Programming Software will not connect to the panel in this situation.