FX-DIS Local Controller Display

Technical Bulletin

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Document Introduction

This document describes how to operate and troubleshoot the Facility Explorer Local Controller Display (FX-DIS1710-0). The display module is a local user interface for the Facility Explorer Programmable Variable Air Volume (VAV) Box Controllers (FX-PCVs) and Facility Explorer General Purpose Programmable Controllers (FX-PCGs) that do not have an integral display. For some FX-PCGs, the display is a built-in component. Use this document for both the stand-alone and the built-in display models.

This document does not describe how to commission the display with the Controller Configuration Tool (CCT). For details, refer to Controller Tool *Help (LIT-12011147)*.

See *Related Documentation* for additional information related to applying the Local Controller Display to your FX-PC Series Controller.

Related Documentation

Table 1 lists documentation related to the Facility Explorer Local Controller Display (FX-DIS1710).

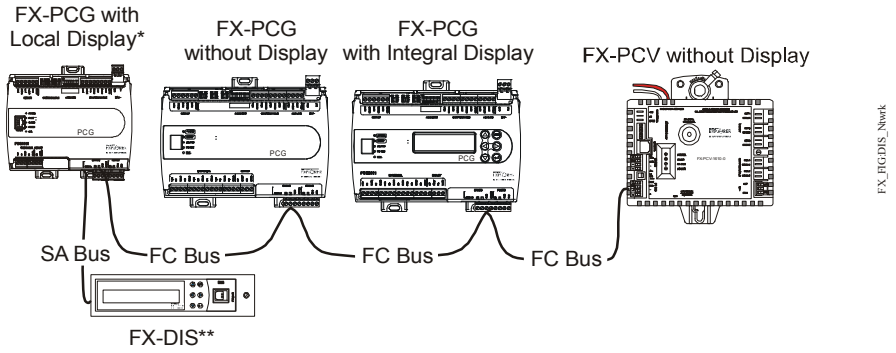
Table 1: Facility Explorer Local Controller Display (FX-DIS1710) Related Documentation

For Information On	See Document	LIT or Part Number
Features, Benefits, and Applications of the FX-DIS1710	*FX-DIS Local Controller Display Product Bulletin*	*LIT-12011667*
Installation and Specifications of the FX-DIS1710-0	*FX-DIS Local Controller Display Installation Instructions*	*Part No. 24-10240-17*
Commissioning, Uploading, and Downloading the FX-DIS1710	*Controller Tool Help*	*LIT-12011147*[1]
Specifications of the Facility Explorer Programmable Controllers	*FX-PC Series Programmable Controllers and Related Products Product Bulletin*	*LIT-12011657*
Installation Instructions and Specifications for the FX-PCG16 and FX-PCG26	*FX-PCG16 General Purpose Programmable Controller Installation Instructions*	*Part No. 24-10143-52*
	FX-PCG26 General Purpose Programmable Controller Installation Instructions	*Part No. 24-10143-160*
Installation Instructions and Specifications for the PCV1617 and PCV1632	*FX-PCG16 General Purpose Programmable Controller Installation Instructions*	*Part No. 24-10143-489*
Installing the FX-ZFR1800 Series Wireless Field Bus System (Facility Explorer network only)	*FX-ZFR Series Wireless Field Bus System Technical Bulletin*	*LIT-12011660*
Specifications of the Wireless Commissioning Converter and Setting up a Bluetooth® Wireless Adapter	*FX-BTCVT Bluetooth® Commissioning Converter Installation Instructions*	*Part No. 24-10108-10*
	FX-BTCVT Bluetooth® Commissioning Converter Commissioning Guide	*LIT-12011665*
Integrating the MS/TP Communication Bus into the Metasys System	*BACnet® Controller Integration with NAE/NCE Technical Bulletin*	*LIT-1201531*
CCT Software	*Controller Tool Help*	*LIT-12011147*[1]

1. This LIT number represents a printer friendly version of the Help.

Local Controller Display on the Sensor Actuator (SA) Bus

The Local Controller Display is an optional accessory to an FX-PCG and FX-PCV that provides a user interface to the device. The display installs on the front door of the panel that houses the controller and is connected to the SA Bus. Figure 1 shows an example network of FX-PC controllers with Local Controller Displays.



* Typically, a local display is mounted to the door of an enclosure that contains the controller.

**** Note:** Do not connect the local display to an FX-PCG that has an integral display.

Figure 1: FX-PC Controllers on the FC Bus

Figure 2 shows the dimensions, and Figure 3 shows the physical features of the Local Controller Display. The same general design features also to apply FX controller models that have a built-in display.

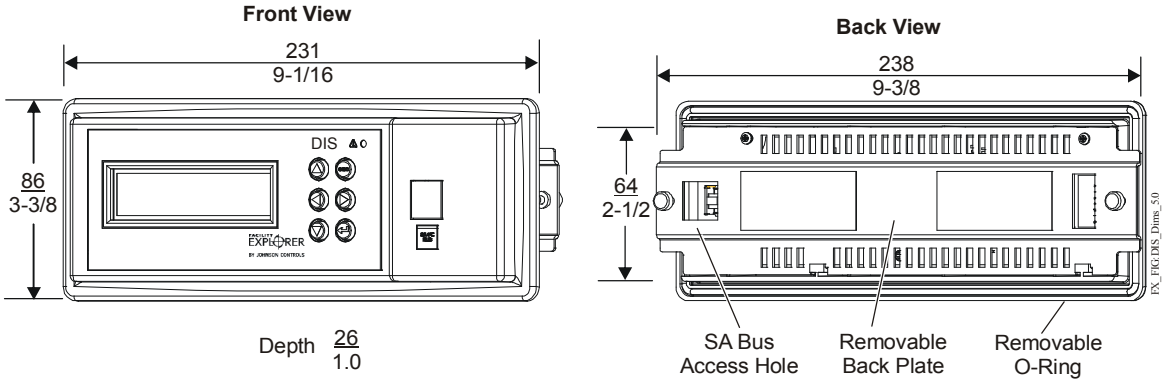
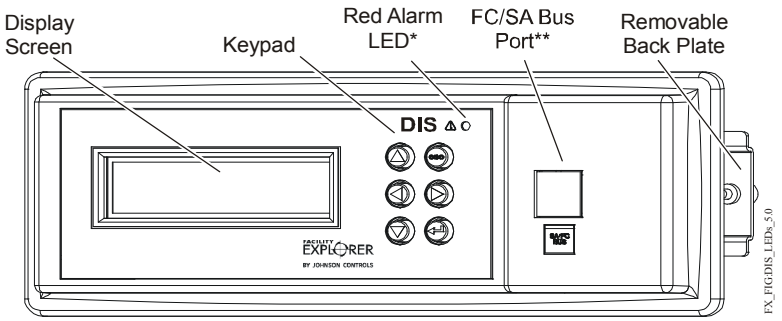


Figure 2: Local Controller Display Dimensions, mm/in.



* Alarm Light Emitting Diode (LED) not used.

** RJ-12 6-pin modular jack. To use port, remove cap plug. When done, replace cap plug.

Figure 3: Local Controller Display Physical Features

Table 2 describes the purpose of each component on the Local Controller Display.

Table 2: Local Controller Display Components

Component	Description
Display Screen	Displays the controller's user interface.
FC/SA Bus Port	Allows for Bluetooth RJ-12 6-pin device connection for commissioning purposes.
Keypad	Used for interacting with the display.
Red Alarm LED	Not used.
Removable Back Plate	Used to hold the display onto the door of the enclosure.
Removable O-Ring	Fits inside gland around housing perimeter.
SA Bus Access Hole	Cutout section on the removable back plate through which the SA Bus connector cable can pass for connection to the display.

Local Controller Display Keypad

The Local Controller Display has six keys that are used to navigate the menu structure (Figure 4):

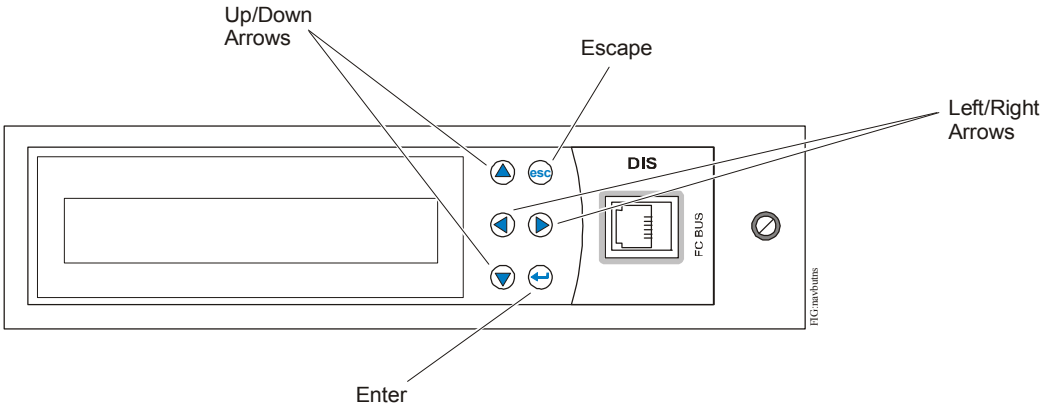


Figure 4: Local Controller Display Keypad

- **Up/Down Arrows (▲▼)** move the highlighted field up or down on the current display, or within a menu. These arrows also allow for incrementing and decrementing a number or digit within a number, and move between fields on pages that contain multiple fields.
- **Left/Right Arrows (◀▶)** move the highlighted field to the right or left on the current display. These arrows also allow for selecting a digit within a number for modification purposes, and scroll the Idle page four items at a time.
- **Escape (esc)** button cancels the current data value or selection. This button also returns the display to the previous page.
- **Enter (↵)** button performs the action of the highlighted field on the display. This button also accesses the next menu level.
- **Pressing Escape + Enter simultaneously** logs off the user. The display then returns to the Idle/Favorites page.

All keys on the Local Controller Display have a repeat function in where key action is repeated when the key is held down for more than 1 second. For example, if you hold down the up key, the highlighted field moves up one selection each second. The repeat rate is the same for all the keys.

Local Controller Display Configuration

FX-PC controllers with a local display, or controllers with the remote stand-alone display, are configured with CCT. The CCT provides a Configure Display menu option that allows you to:

- define which points appear on the display pages (Input/Output View, Parameter/Setpoint View, and Idle View) and in which order
- define which points are read-only (cannot be commanded using the display)
- specify point names and descriptions
- set display attributes including contrast and backlight intensity
- select timeout settings
- select authorization, including password definition

These options are available in CCT through the Configure Display option found in the Tools menu while in Configuration mode. For details, refer to Controller Tool *Help (LIT-12011147)*.

Local Controller Display Operation Overview

The Local Controller Display uses a fixed set of display pages to organize the objects and data defined in the controller. Use the keypad to log on to the device and navigate between and within each page. See *Local Controller Display Keypad* for navigation information. You cannot change the order of the pages, but you can change the contents of the pages when you configure the display with CCT.

Local Controller Display Menu Structure

Figure 5 is a flowchart of the menu structure for the Local Controller Display. The menu selections are described in the sections that follow.

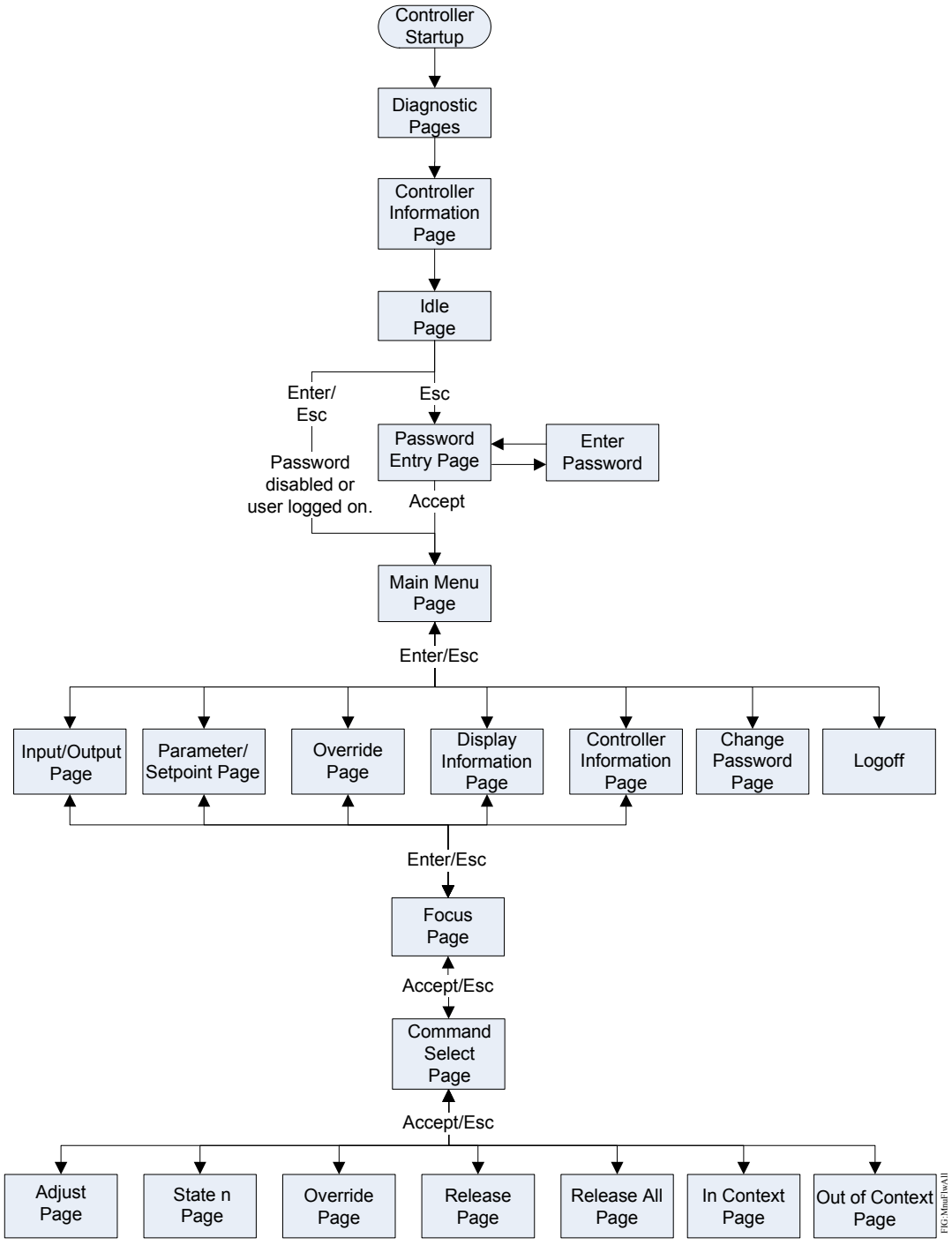


Figure 5: Local Controller Display Menu Structure

Description of Local Controller Display

The pages that you access from the display's Main Menu share a common layout and theme. For example, all pages have a page title and a scroll bar used to navigate the page. In addition, all pages support four lines of text. The common areas of the screens are shown in Figure 6.

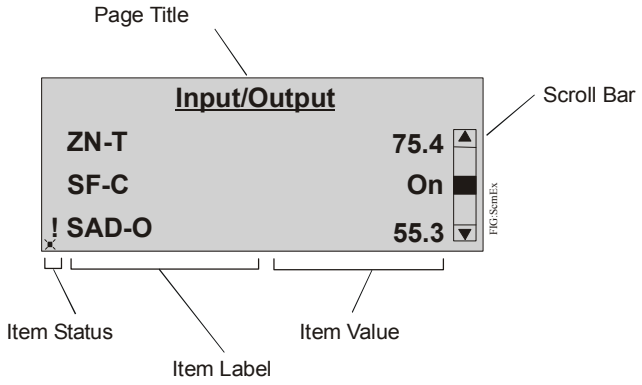


Figure 6: Common Areas of the Local Controller Display

If a text field shown on the Local Controller Display exceeds 20 characters, the text scrolls across the screen once and then remains left justified with trailing ellipses to indicate the entire text is not showing. For example, Floor1 Zone Temperature may be shortened as **Floor1 Zone Temper…**. Text characters not supported by any available character are displayed as asterisks.

Text is also shortened if the data field for the object exceeds the total allocated width. For example, if the value of an object is 12345.67, the displayed value may be shortened to 12345 (depending on its initial length).

Pages on the Local Controller Display:

- share a common method of row selection
- use a common method of entering data within an editable field
- show a scroll bar to indicate the scrolling feature is enabled
- support scrolling of rows and data that span multiple screens
- share a common method of wrapping row selection when the endpoints of the rows in a list have been reached
- update their values every 5 seconds (Present Value and Reliability attributes) or 120 seconds (all other attributes)

You can select objects shown on the Local Controller Display when you configure the display with CCT. For details, refer to Controller Tool *Help (LIT-12011147)*.

Local Controller Display Pages

When the controller is powered on, the screen displays a series of pages that sequence automatically to indicate the status of the controller. These pages include:

- Diagnostic Pages which provide status information during powerup. These pages also present four screens that feature the Johnson Controls® logo (Figure 7).
- Controller Information Page which displays information about the controller (Figure 8).
- Idle/Favorites Page which displays important values and frequently referenced input and output points (Figure 9).

Diagnostic Pages

When the controller is powered on, the screen sequences through four pages, as shown in Figure 7. If a problem is detected during startup, the screen indicates the error condition. If the controller is missing an application, the Johnson Controls screen remains showing with the message **Application Download Required**. If an application is present, the startup sequence completes and the Controller Information page appears (Figure 8).

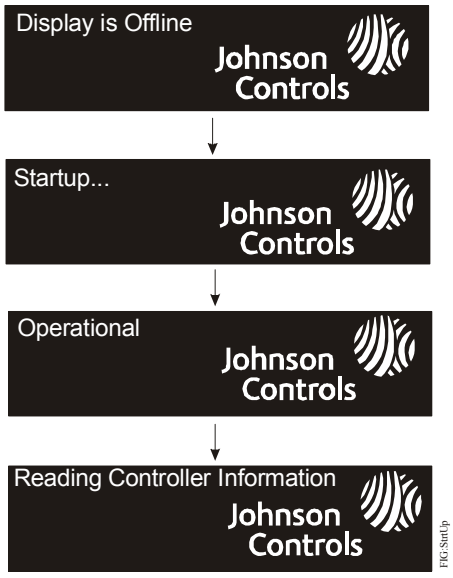


Figure 7: Diagnostic Pages That Appear During Startup

Controller Information Page

The Controller Information page displays general information about the controller, such as the device name and firmware version (Figure 8). This page appears for about 8 seconds, then the Idle/Favorites Page appears (Figure 9). If the controller has not yet been commissioned by CCT, the display remains on the Controller Information page.

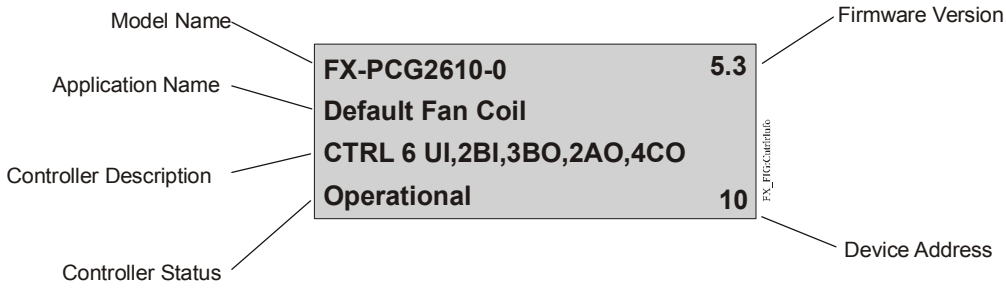


Figure 8: Controller Information Page - FX Example

You can also access the information shown in Figure 8 in attribute view format by selecting Controller Information from the Main Menu. The information shown on the Controller Information page cannot be customized.

Idle/Favorites Page

The Idle/Favorites page is the default view for the controller. It shows a user-defined, ordered list of data points selected from within the application running in the controller (Figure 9). Use CCT to specify which objects appear on this page.

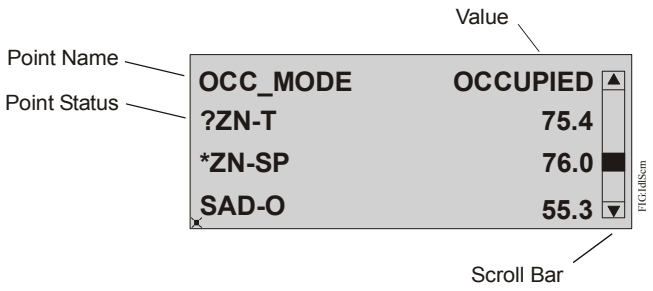


Figure 9: Idle/Favorites Page

When more than four points are configured for the Idle page, the points list scrolls vertically down the page one line at a time. You can scroll the page one item at a time by using the up and down arrow keys or scroll the page four items at a time by using the left and right arrow keys. Each point appears in a single row and contains its name, value, and status. The point's status is indicated by a symbol to the left of its name (Table 3). Point values are updated every 5 seconds.

Table 3: Icons Used for Displaying Point Status

Symbol	Description of Point Status
<none>	Normal Operation - Point Status is in a normal state.
?	Offline – Point Status is offline or unreliable; actual value is unknown.
*****	Overridden – Point Status is in an overridden state.
¤	Out Of Service – Point Status is currently out of service.

The Idle/Favorites page reappears whenever you log off the display or the idle timeout period expires. Pressing the Esc key when the Idle/Favorites page is displayed allows you to log on, or if already logged on, to access the Main Menu.

Password Page

A Password page is used when password access is enabled for the display. Passwords protect the display from unauthorized users. The display permits only one password for all users, and this password applies only to a single controller. For simplicity, you may want to use the same password for all controllers with displays. See *Change Password Page* for password character limits.

The Password page is presented when you press the Esc key (Figure 10). From this page, you individually select each character of your password. An asterisk masks each selected character. When you select Accept, the password is authenticated and the Main Menu page appears. If the password entered is not valid, the controller displays **Authorization Failed**. Message password access to the display is granted, you remain logged on to the controller until you log off manually, or until no keypad activity occurs during the idle timeout period. The timeout period is set by the user.

Note: Password support is enabled and defined with CCT under the Display Configuration option. CCT is also used to disable the password if the password requirement is no longer desired. Password access cannot be disabled from the Local Controller Display.

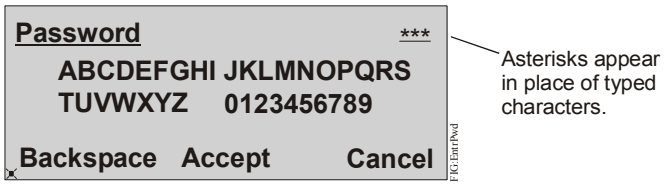


Figure 10: Password Page

Change Password Page

Once logged on, you can change your password by accessing the Change Password page. The process involves entering, confirming, then saving the new password. The password can be from one to 32 characters in length, all uppercase alphanumeric characters. If the new and confirmed password entries do not match, the message **Passwords do not match** appears. If the new password is accepted, the Main Menu page appears.

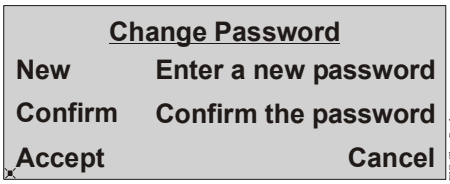


Figure 11: Change Password Page

Data Refresh Rate

Data shown on the Local Controller Display is periodically refreshed depending on controller activity and is not set by the user. For monitored points, Present Value and Reliability attributes update every 5 seconds. For all other attributes, values are updated within 120 seconds. After 10 minutes with no keypad activity (including being logged off), the refresh rate of all attributes, including Present Value and Reliability, reverts to 120 seconds.

Detailed Procedures

Entering a Password

To enter a password:

Note: The password entry page is available only if a password was enabled when the Display Configuration was set with CCT. Otherwise, the display menus are accessible without a password entry.

1. Press the Escape or Enter key. The Password page appears (Figure 12).

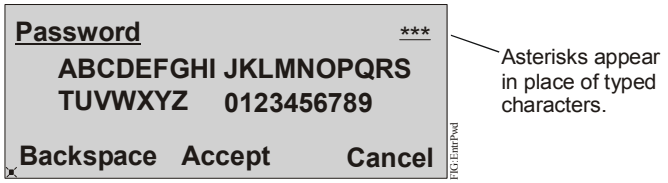


Figure 12: Password Entry Page

2. Use the arrow keys to select each character of your password, and press Enter to submit each character. Your entries appear in the upper right corner as asterisks. To correct an entry, use Backspace to erase one entry at a time, or press Esc to clear the entire password and start over.
3. When you have entered the entire password, select Accept and press Enter. The password is verified and the Main Menu appears.

Changing the Password

To change the password:

1. Go to the Main Menu by using the keypad. See *Local Controller Display Keypad*.
2. Scroll down and select the Change Password option.
3. Press Enter. The Change Password page appears (Figure 13).

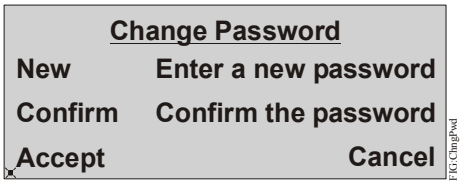


Figure 13: Change Password Page

4. Select the **Enter a new password** option. The New password entry page appears (Figure 14).

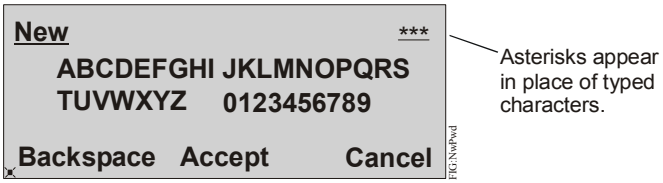


Figure 14: New Password Page

5. Use the arrow keys to select each character of your new password, and press Enter to submit each character. Your entries appear in the upper right corner as asterisks. To correct an entry, use Backspace to erase one character at a time, or press Esc to clear the entire password and start over.
6. When you have entered the entire password, select Accept and press Enter. The Change Password confirmation page appears (Figure 15).

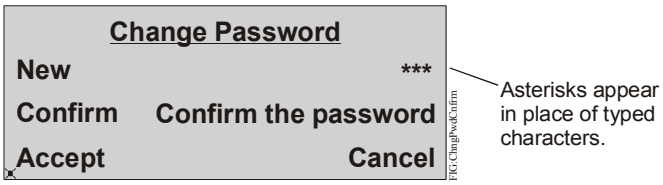


Figure 15: Change Password Page

7. Press Enter to confirm the new password. The Confirm password page appears (Figure 16).

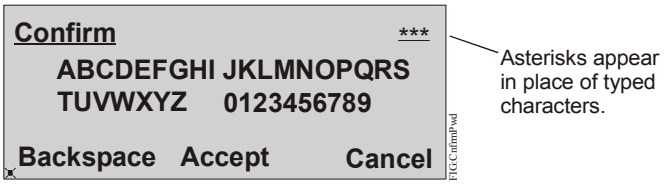


Figure 16: Confirm Password Page

8. Reenter your new password, select Accept, and press Enter. The Change Password confirmation page reappears (Figure 17).

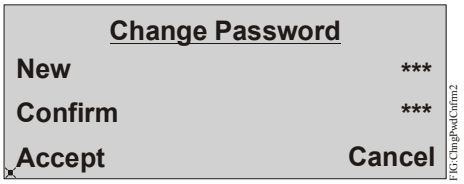


Figure 17: Change Password Page

9. Select Accept and press Enter. The new password is confirmed and, if accepted, the Main Menu appears. If the new and confirmed password entries do not match, the message **Passwords do not match** appears.

Note: You can also change your password using CCT. The new password is effective after you download the application to the controller using CCT.

Displaying Configured Input and Output Points

To display configured input and output points:

1. Go to the Main Menu.
2. Select the Input/Output option. A list of all configured input and output points appears (Figure 18).

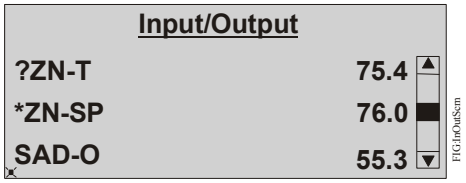


Figure 18: Input/Output Page

3. Use the up/down arrow keys to scroll through the list of points and their current values.
4. For details on a particular point, select the point and press Enter. The Focus page for the point appears. Figure 19 is an example of a zone setpoint.

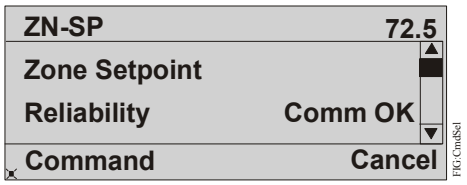


Figure 19: Example of Zone Setpoint Page

5. Use the up/down arrow keys to navigate through point details.
6. Press Esc to return to the Main Menu.

Commanding Configured Input and Output Points

To command configured input and output points:

1. Go to the Main Menu.
2. Select the Input/Output option. A list of all configured input and output points appears.
3. Select the point that you want to command.
4. Press Enter. The Command option for the point is highlighted.

5. Press Enter to display the commands available for this point. Figure 20 shows an example for an analog point.

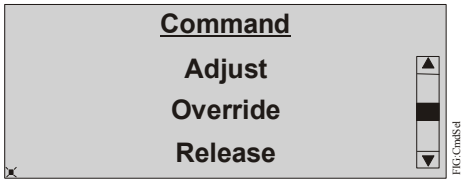


Figure 20: Command Page

6. Select a Command and press Enter. The Adjust page appears (Figure 21). For analog points, use the left and right arrow keys to position the cursor to a desired digit location. Then, use the up and down arrow keys to increment and decrement a value. For binary points, use the up and down arrow keys to scroll through the available selections. Figure 21 shows an example for adjusting an analog setpoint.

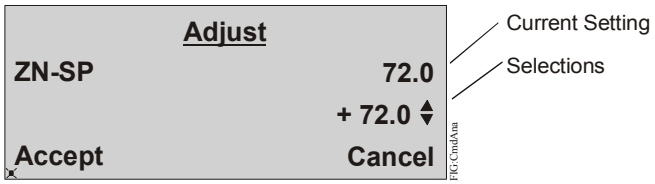


Figure 21: Adjust Page

7. Press Enter to select Accept.
8. Press Enter again to verify the selection and send the command.
9. Press Esc to return to the Main Menu.

Displaying Configured Parameters and Setpoints

To display configured parameters and setpoints:

1. Go to the Main Menu.
2. Select the Parameter/Setpoints option. A list of all configured parameters and setpoints appears.

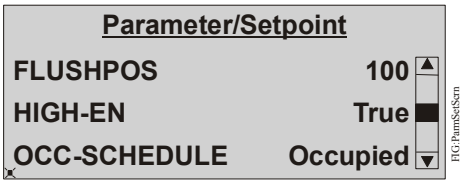


Figure 22: Parameter/Setpoint Page

3. Use the up/down arrow keys to scroll through the list with the current values.

4. For more details on a particular item, select the item and press Enter. The Focus page for the item appears. Figure 23 is an example for the Occupancy Schedule.

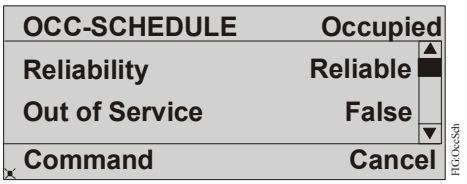


Figure 23: Occupancy Schedule Page

5. Use the up/down arrow keys to navigate through the information.
6. Press Esc to return to the Main Menu.

Commanding Configured Parameters and Setpoints

To command configured parameters and setpoints:

1. Go to the Main Menu.
2. Select the Parameter/Setpoints option. A list of all configured parameters and setpoints appears.
3. Use the up/down arrow keys to select the parameter or setpoint (for example, analog or binary) that you want to command.
4. Press Enter. The Focus page for the item appears with the Command option selected.
5. Press Enter to display the commands available to this parameter or setpoint. Figure 24 shows an example for the Command Pages.

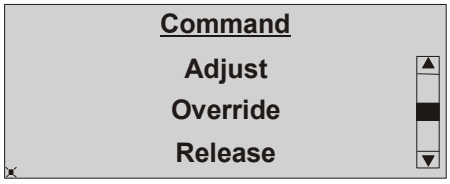


Figure 24: Command Page

6. Select a Command and press Enter. The Adjust page appears (Figure 25). For analog points, use the left and right arrow keys to position the cursor to a desired digit location. Then, use the up/down arrow keys to increment and decrement a value. For binary points, use the up/down arrow keys to scroll through the available selections. Figure 25 shows an example for the Adjust Pages.

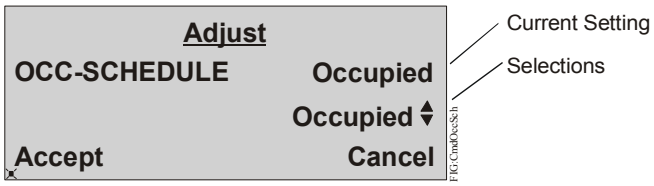


Figure 25: Adjust Page

7. Press Enter to select Accept.
8. Press Enter again to verify the selection and send the command.
9. Press Esc to return to the Main Menu.

Displaying Overridden Points

To display overridden points:

1. Go to the Main Menu.
2. Select the Overrides option. A list of all points that are currently overriden appears (Figure 26). If no points are overriden, the user message **Status: No objects are overridden** appears.

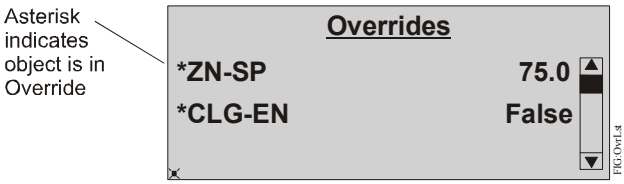


Figure 26: Overrides Page

3. Use the up/down arrow keys to scroll through the list of points and their current values.

4. To display the Focus page for a particular point, select the point and press Enter. The Focus page for the point appears, which also allows you to command the point (for example, release the override). (See Figure 20 for the available commands.) Figure 27 is an example for a zone setpoint in override.

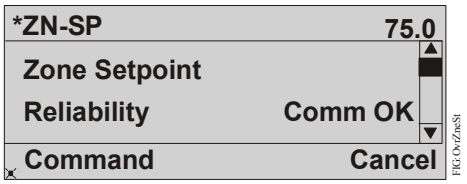


Figure 27: Zone Setpoint Page

5. Use the up/down arrow keys to navigate through the information.
6. Press Esc to return to the Main Menu.

Viewing and Setting Display Information Preferences

The Display Information option shows how the Local Controller Display is configured. Table 4 summarizes these settings, including those that you can customize.

Table 4: Display Information Preferences (Part 1 of 2)

Parameter	Description	Selections
Backlight Intensity[1]	Controls the brightness of the Local Controller Display.	Bright, Medium, Dim, Off (no backlighting)
Backlight Timeout	Defines how long the display remains backlit when no user activity is present before going dim.	1 minute, 5 minutes, 1 hour, 8 hours
Date Format Preference	Sets how dates are presented on the display.	MM DD YY (01 15 07) MM DD YYYY (01 15 2007) DD JAN YYYY (15 January 2007) DD JAN YY (15 January 07) DD MM YY (15 01 07) DD MM YYYY (15 01 2007)
Display Precision Style	Sets which style is used to segment a number.	Dot (72.8) Comma (72,8)
Display Contrast[1]	Sets the amount of contrast the screen uses.	10%, 25%, 50%, 75%, 90% (10% for high contrast; 90% for low contrast)
Firmware Version	Displays the firmware version of the display.	(Not configurable) Example: 4.0.0.0102

Table 4: Display Information Preferences (Part 2 of 2)

Parameter	Description	Selections
Idle Page Timeout	Defines how long the display waits between keyboard interactions before logging off the user.	1 minute, 5 minutes, 15 minutes, 30 minutes, 1 hour, No Timeout
Language	Displays the configured language.	(Not configurable) Default: English (United States)
MAC Address	Displays the controller's configured Media Access Control (MAC) address.	(Not configurable) Example: 22
MS/TP Baud Rate	Displays the configured Master-Slave/Token-Passing (MS/TP) baud rate.	(Not configurable) Example: 38,400
Time Format Preference	Sets how time of day appears on the display.	12 MM (4:30) 12 MM SS (4:30:30) 12 MM AM/PM (4:30 PM) 12 MM SS AM/PM (4:30:30 PM) 24 MM (16:30) 24 MM SS (16:30:30)

1. Backlight intensity and display contrast both affect the readability of the display. Best visibility is backlight intensity is Bright and display contrast is 10%. Worst visibility is backlight intensity is off and display contrast is 90%.

Setting the Backlight Intensity

To set the backlight intensity:

1. Go to the Main Menu.
2. Scroll down to select the Display Information option and press Enter.
3. Scroll down to select the Backlight Intensity parameter and press Enter. The Modify page appears.
4. On the Modify page, use the up/down arrow keys to select a backlight intensity (Figure 28). The screen changes as you select an intensity level.

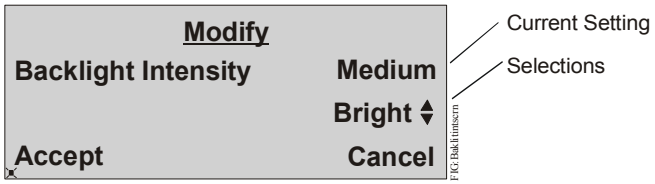


Figure 28: Modify Backlight Intensity Page

5. Press Enter to select Accept.
6. Press Enter again to save the setting and return to the Information page.
7. Press Esc to return to the Main Menu.

Setting the Backlight Timeout

To set the backlight timeout:

1. Go to the Main Menu.
2. Scroll down to select the Display Information option and press Enter.
3. Scroll down to select the Backlight Timeout parameter and press Enter. The Modify page appears.
4. On the Modify page, use the up/down arrow keys to select a backlight timeout (Figure 29).

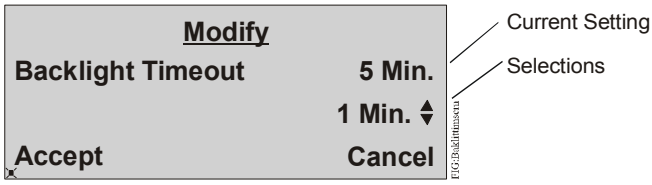


Figure 29: Modify Backlight Timeout Page

5. Press Enter to select Accept.
6. Press Enter again to save the setting and return to the Information page.
7. Press Esc to return to the Main Menu.

Selecting a Date Format Preference

To select a date format preference:

1. Go to the Main Menu.
2. Scroll down to select the Display Information option and press Enter.
3. Scroll down to select the Date Format Pref. parameter and press Enter. The Modify page appears.
4. On the Modify page, use the up/down arrow keys to find the format you want to use for displaying dates (Figure 30).

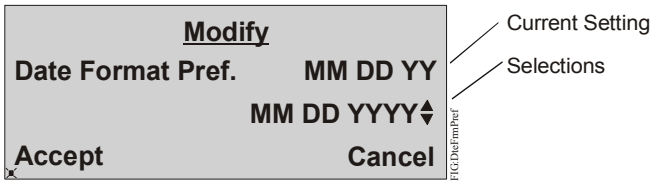


Figure 30: Modify Date Format Preferences Page

5. Press Enter to select Accept.
6. Press Enter again to save the setting and return to the Information page.
7. Press Esc to return to the Main Menu.

Selecting the Display Precision Style

To select the display precision style:

1. Go to the Main Menu.
2. Scroll down to select the Display Information option and press Enter.
3. Scroll down to select the Disp (Display) Precision Style parameter and press Enter. The Modify page appears.
4. On the Modify page, use the up/down arrow keys to select the style to use as the separator in a number (Figure 31).

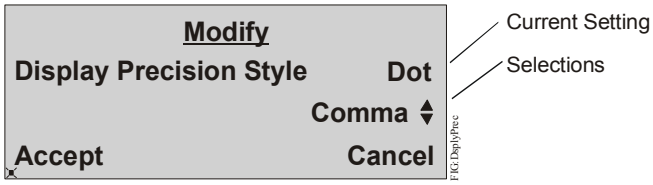


Figure 31: Modify Display Precision Style Page

5. Press Enter to select Accept.
6. Press Enter again to save the setting and return to the Information page.
7. Press Esc to return to the Main Menu.

Setting the Display Contrast

To set the display contrast:

1. Go to the Main Menu.
2. Scroll down to select the Controller Information option and press Enter.
3. Scroll down to select the Display Contrast parameter and press Enter. The Modify page appears.
4. On the Modify page, use the up/down arrow keys to select a percentage for the display contrast (Figure 32). The screen changes as you select a percentage.

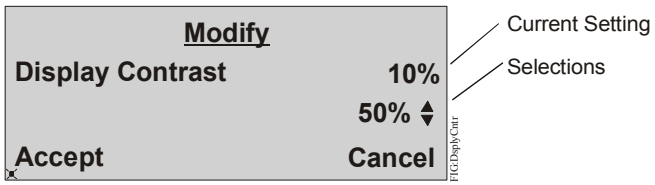


Figure 32: Modify Display Contrast Page

5. Press Enter to select Accept.
6. Press Enter again to save the setting and return to the Information page.
7. Press Esc to return to the Main Menu.

Setting the Idle Timeout Value

To set the auto-logoff timeout value:

1. Go to the Main Menu.
2. Scroll down to select the Display Information option and press Enter.
3. Scroll down to select the Idle Page Timeout parameter and press Enter. The Modify page appears.
4. On the Modify page, use the up/down arrow keys to select a new idle timeout value (Figure 33).

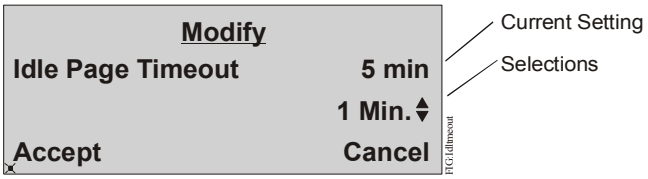


Figure 33: Modify Idle Page Timeout Page

5. Press Enter to select Accept.
6. Press Enter again to save the setting and return to the Information page.
7. Press Esc to return to the Main Menu.

Selecting the Time Format Preference

To select a time format preference:

1. Go to the Main Menu.
2. Scroll down to select the Display Information option and press Enter.
3. Scroll down to select the Time Format Preference parameter and press Enter. The Modify page appears.
4. On the Modify page, use the up/down arrow keys to find the format you want to use for displaying times (Figure 34).

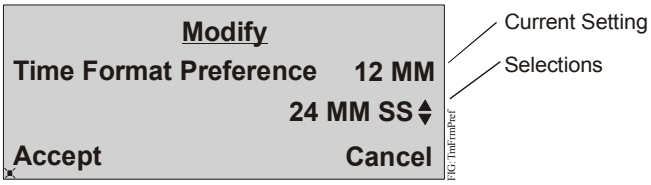


Figure 34: Modify Time Format Preference Page

5. Press Enter to select Accept.
6. Press Enter again to save the setting and return to the Information page.
7. Press Esc to return to the Main Menu.

Displaying Controller Information

To display controller information:

1. Go to the Main Menu.
2. Scroll down and select the Controller Information option.
3. Scroll down to view each line of controller information. Table 5 lists the type of information available. None of these attributes can be modified from the display, but some are defined when the application is configured using CCT. See Table 5.

Table 5: Controller Display Attributes

Attribute	Description	Example
Status[1]	Current status of the controller	Operational
CTRL	List of the controller's point capacities	6 UI, 2 BI, 3 BO, 2 AO, 4 CO
Model Name	Model name of the controller	FX-PCG2611-0
Object Name[2]	Object name of the controller	FC-22
System Name[2]	Name of the system application in the controller	FCapp
Local Site Director	Not applicable	****
Firmware Version	Version of the firmware stored in the controller	5.3
CPU Usage	Number representing the current Central Processing Unit (CPU) usage in percent	6
FCB Mac Address	Number representing the MAC address assigned to the controller	10
FCB Baud Rate	Baud rate configured for communication on the MS/TP Bus	Auto

1. No attribute label named **Status** is shown; only the current status of the controller is indicated.
2. This attribute is defined when the application is configured using CCT.

Logging Off the Display

To log off the display:

1. Go to the Main Menu.
2. Scroll down and select the Log Off option.
3. Press Enter. You are logged off and the Idle/Favorites page appears.

   Note: You may also log off by pressing the Esc and Enter keys at the same time.

Troubleshooting

Table 6: Troubleshooting the FX-DIS1710 Local Controller Display

Problem	Solution
The error message Warning: Keypad Error appears	User is holding down a key on the keypad while the unit is starting up. Release the key and press Escape to clear the error.
The Display Screen is not Displaying Settings	Display settings need to be adjusted. See Table 4 for setting options.

Technical Specifications

FX-DIS Local Controller Display

Product Code Number		FX-DIS1710-0 Local Controller Display
Power Requirement		Nominal 15 V Provided by Controller Over SA Bus
Power Consumption		2 VA Maximum
Ambient Operating Temperature		0°C to 50°C (32°F to 122°F)
Ambient Operating Conditions		10% to 90% RH, 30°C (86°F) Maximum Dew Point
Ambient Storage Temperature		-40°C to 70°C (-40°F to 158°F)
Ambient Storage Conditions		5 to 95% RH, 30°C (86°F) Maximum Dew Point
Terminations		RJ-12 6-Pin Jack at Service Port (Covered by Removable Cap-Plug) SA Bus Connection on Back of Unit
Processor		Renesas® H8S-2398 32-bit Microprocessor
Memory		256 KB Flash Memory 8 KB Random Access Memory (RAM)
Operating System		RTOS-H8S
Network and Serial Interfaces		Communication to FX-PC Controller Over SA Bus
Graphic Display Resolution		240 pixels x 64 pixels with White LED Backlighting (Adjustable)
Dimensions (Height x Width x Depth)		85.9 mm x 238 mm x 25.8 mm (3-3/8 in. x 9-3/8 in. x 1.0 in.)
Housing		Plastic Housing Material: ABS + Polycarbonate Protection: IP20 (IEC60529)
Mounting (Height x Width)		Mount to the Outside of the Enclosure 70.5 mm x 216.5 mm (2-13/16 in. x 8-9/16 in.)
Compliance	**United States**	UL Listed, File E107041, CCN PAZX, UL 916, Energy Management Equipment FCC Compliant to CFR47, Part 15, Subpart B, Class A
	Canada	UL Listed, File E107041, CCN PAZX7, CAN/CSA C22.2 No. 205, Signal Equipment; Industry Canada Compliant, ICES-003
	Australia and New Zealand	C-Tick Mark, Australia/NZ Emissions Compliant
Shipping Weight		0.14 kg (0.3 lb)

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