DIS1710 Local Controller Display Product Bulletin

MS-DIS1710-0

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Software Release 6.0
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Refer to the QuickLIT website for the most up-to-date version of this document.

The DIS1710 Local Controller Display is a member of the Metasys® Field Equipment Controller family. It is a stand-alone display module installed on the front panel of an enclosure and connected to a Network Control Engine (NCE), Field Equipment Controller (FEC), or Advanced Application Field Equipment Controller (FAC).

The DIS1710 display provides a local user interface into the application running in the field controller. The display allows you to monitor and adjust setpoints, issue commands, change occupancy, and perform many other important tasks.

Figure 1: Local Controller Display

Table 1: Features and Benefits

Features	Benefits
At-a-Glance System Status	Allows you to quickly view the current status of monitored points without logging in.
Complete Access to Operating Parameters and Setpoints	Allows you to conveniently view and change the controller's operating parameters and setpoints.
Menu-Based Screen Design	Provides an intuitive user interface through the use of a simple keypad.
Tactile-Feel Keypad	Provides comfortable and durable keys.
Backlit LCD	Displays information in easy-to-read, English text messages with constant backlight that brightens during user interaction. Contrast and brightness are adjustable to ensure excellent readability in low-light environments.
Customized User Preferences	Allow you to specify parameters such as password timeout and time/date format.
Password Protection (Optional)	Secures the display from unauthorized users.
Easy Panel Installation	Installs quickly and simply into the preformed cutout in a panel.
Compatibility with All NCE, FEC, and FAC Models without Integral Displays	Provides a user interface for controllers that lack an integral display.

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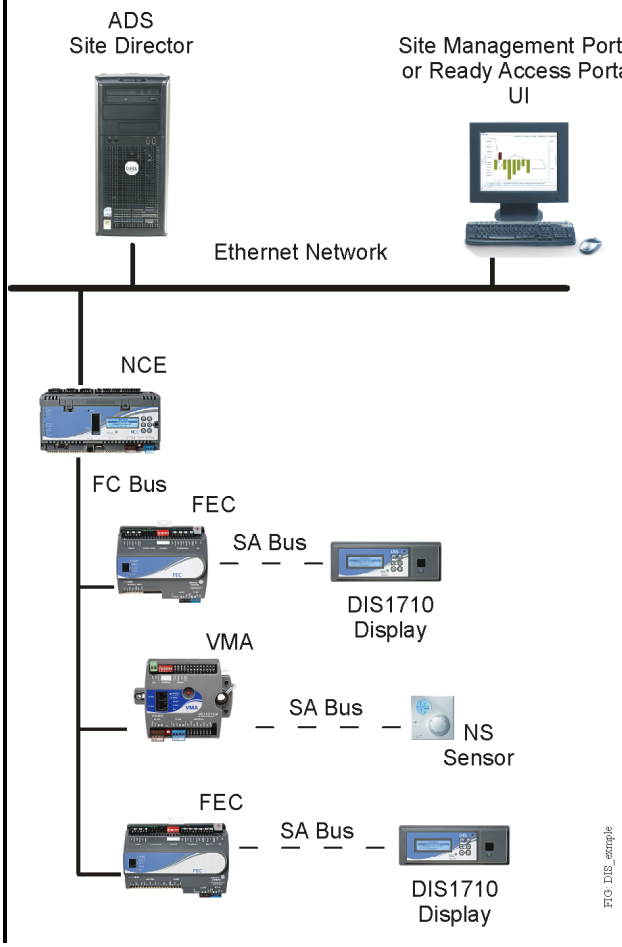
Figure 2: Metasys System with DIS1710 Displays



Note: If an FEC1610 is part of a ZFR1800 Series Wireless Field Bus system, a ZFRCBL wire harness (MS-ZFRCBL-0) may be required to connect the local display. Refer to the *DIS1710 Local Controller Display Installation Instructions (Part No. 24-10240-9)*.

Applications

The DIS1710 Local Controller Display is designed for use with controllers without integral displays, including some NCE25, FEC16, FEC26, and FAC26 models. The display is installed on the front panel of the enclosure that houses the controller. You can commission the controller conveniently from the Field Controller/Sensor Actuator (FC/SA) Bus port on the front of the display without having to open the enclosure.

Note: The DIS1710 can be used on FAC family controllers; however, FAC schedules, real-time clock settings, trends, and intrinsic event logs are not accessible from the DIS1710 at Release 6.0.

Display features include a backlit LCD, easy-to-use keypad, and fast communication to the attached controller. You can conveniently adjust heating and cooling setpoints, view the room or outside air temperatures, select mode of operation (Day/Night), and much more.

Controller Configuration Tool

The Controller Configuration Tool (CCT) is used in conjunction with the Metasys system to configure, upload, and download the display.

Customized Screen Content

Using the Configure Display screen in CCT (*Figure 4*), you select which items are shown on the display and in what order. The three main views are Inputs/Outputs, Parameters/Setpoints, and Idle (user logged off). You can also specify user names and descriptions for displayed items.

Figure 3: Main Menu and Zone Setpoint Screens

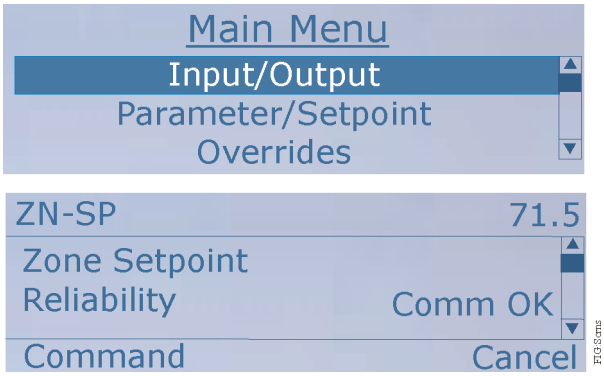


Figure 4: Configure Display Screen - CCT

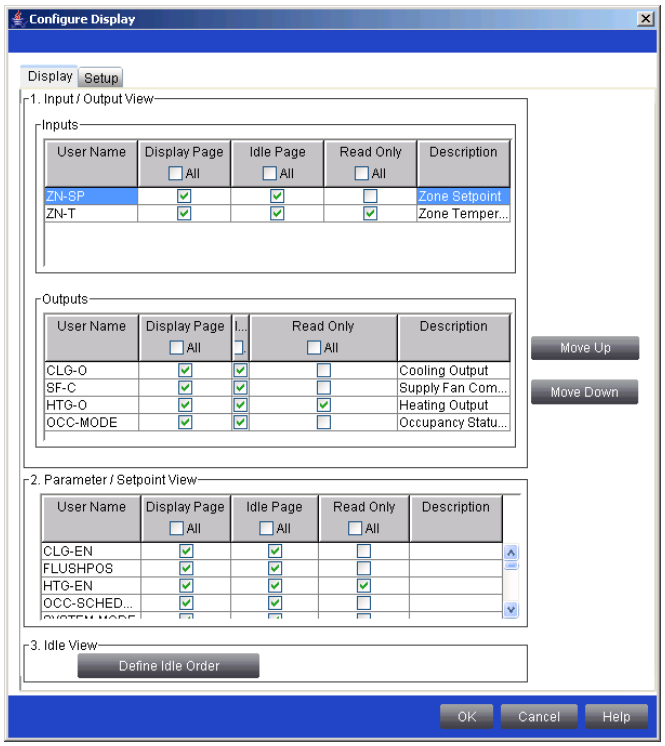
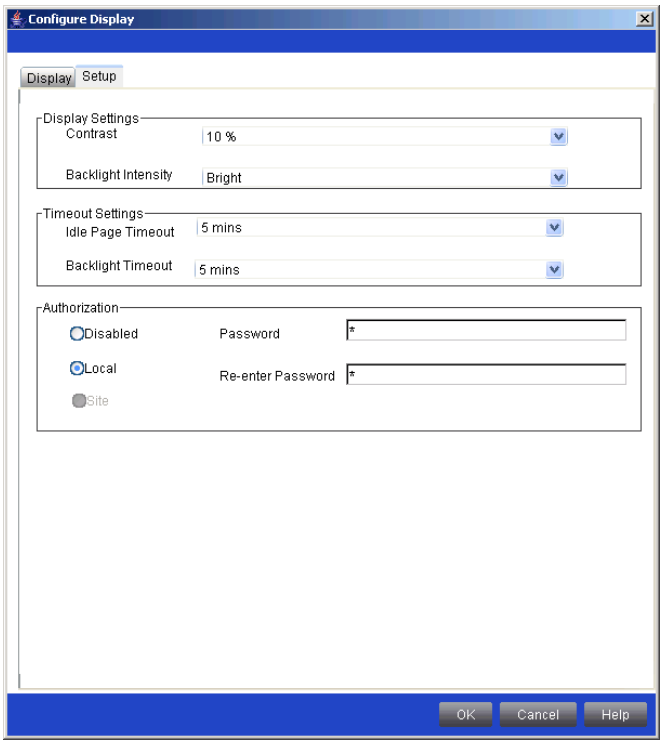


Figure 5: Display Setup Screen - CCT



Customized User Experience

You can change display settings and timeout settings to customize the display (*Figure 5*). For example, you can adjust the contrast and brightness of the screen, and select how long the display remains active for keypad entry. You can also enable password protection, which protects the system from unauthorized users.

Conclusion

The DIS1710 Local Controller Display offers a very attractive, easy-to-navigate interface to the NCE, FEC, or FAC. Users appreciate the convenience and simplicity of monitoring and adjusting building conditions at a local device. The display represents a superior addition to the Metasys system product line.

Repair Information

If the DIS1710 Local Controller Display fails to operate within its specifications, replace the unit. For a replacement display, contact the nearest Johnson Controls® representative.

Ordering Information

Contact the nearest Johnson Controls representative to order the Metasys system Local Controller Display and other related products. Specify the product code number from *Table 2*. See *Table 3* for available accessories.

Table 2: DIS1710 Ordering Information

Product Code Number	Description
MS-DIS1710-0[1]	MS-DIS1710-0 Local Controller Display

1 Also available in a Buy American version (add a G after the code number). For repair parts, replace the -0 suffix with -702.

Table 3: Accessories (Order Separately)

Product Code Number	Description
MS-BTCVT-1	Wireless Commissioning Converter with Bluetooth® Technology

Technical Specifications

Table 4: DIS1710 Local Controller Display

Product Code Number	MS-DIS1710-0 Local Controller Display for Field Equipment Controllers
Power Requirement	Nominal 15 V provided by controller over SA Bus
Power Consumption	2 VA maximum
Ambient Operating Temperature	0 to 50°C (32 to 122°F)
Ambient Operating Conditions	10 to 90% RH, 30°C (86°F) maximum dew point
Ambient Storage Temperature	-40 to 70°C (-40 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 16-bit microprocessor
Memory	256 KB Flash Memory8 KB Random Access Memory (RAM)
Operating System	RTOS-H8S
Network and Serial Interfaces	Communication to controller over SA Bus
Graphic Display Resolution	240 x 64 pixels with white LED backlighting (adjustable)
Dimensions (Height x Width x Depth)	85.9 x 238 x 25.8 mm (3.4 x 9.37 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 x 216.5 mm (2.78 x 8.525 in.)
Shipping Weight	0.14 kg (0.3 lb)
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
CE	Europe: CE Mark – Johnson Controls, Inc., declares that this product is in compliance with the essential requirements and other relevant provisions of the EMC Directive 2004/108/EC.
	Australia and New Zealand: C-Tick Mark, Australia/NZ Emissions Compliant

The performance specifications are nominal and conform to acceptable industry standards. For application at conditions beyond these specifications, consult the local Johnson Controls office. Johnson Controls, Inc. shall not be liable for damages resulting from misapplication or misuse of its products.

North American Emissions Compliance

United States Emissions Compliance:

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when this equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area may cause harmful interference, in which case the users will be required to correct the interference at their own expense.

Canadian Emissions Compliance:

This Class (A) digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la Classe (A) respecte toutes les exigences du Règlement sur le matériel brouiller du Canada.

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