F4-DLK0350 Product Bulletin

LIT-12014010

2024-12-11

F4-DLK0350 Local Controller Display

Figure 1: F4-DLK0350 Local Controller Display



The F4-DLK0350 Local Controller Display is a stand-alone local display that provides enhanced local monitoring of controlled field equipment. The F4-DLK0350 features a 3.5 in. (8.9 cm), 320 x 240 pixel resolution color display, and navigation keypad. The display provides an intuitive local interface for users to monitor point values and status, view alarms, view trends, override outputs, and adjust setpoints and parameters.

The F4-DLK0350 can be panel or surface mounted. You can also use it as a portable device by plugging it into a compatible controller while on-site. You can connect the F4-DLK0350 to the SA Bus of a controller that does not have an on-board display.

The F4-DLK0350 local display can be connected to the following compatible controller devices:

- F4-CG series General Purpose Application Equipment Controllers
- F4-CV series VAV Box Controllers
- PCA series Advanced Application Field Equipment Controllers
- PCG series Field Equipment Controllers
- ATC1510 equipment controller
- PCV16, PCV18, and PCV19 series VAV box controllers
- VAV17 series VAV box controllers
- F4-SNC series Supervisory Controllers

Features and benefits

At-a-glance system status

Provides quick access to view the current status of monitored points.

Sleek and modern packaging and styling

Provides a modern, aesthetically pleasing industrial design.

Local access to operating parameters, setpoints, alarms, and trends

Provides end users and field technicians the ability to quickly troubleshoot issues and restore control while being in close proximity to the associated mechanical equipment.

Live trending

Enables a field technician the ability to plot the present value of up to two application points without the need to configure trends, in real-time, on a graphical trend chart while troubleshooting an issue.

Plug and play configuration

Saves field technician's time by enabling the display to be functional out of the box without user configuration required. The display can also be customized by configuring the display object in the controller's application.

Menu-based screen design

Provides an intuitive user interface through the use of a simple keypad.

Tactile keypad

Provides haptic feedback to the user upon interaction.

Back-lit LCD

Provides constant backlight that activates during user interaction to ensure excellent readability in low-light environments.

Customized user preferences

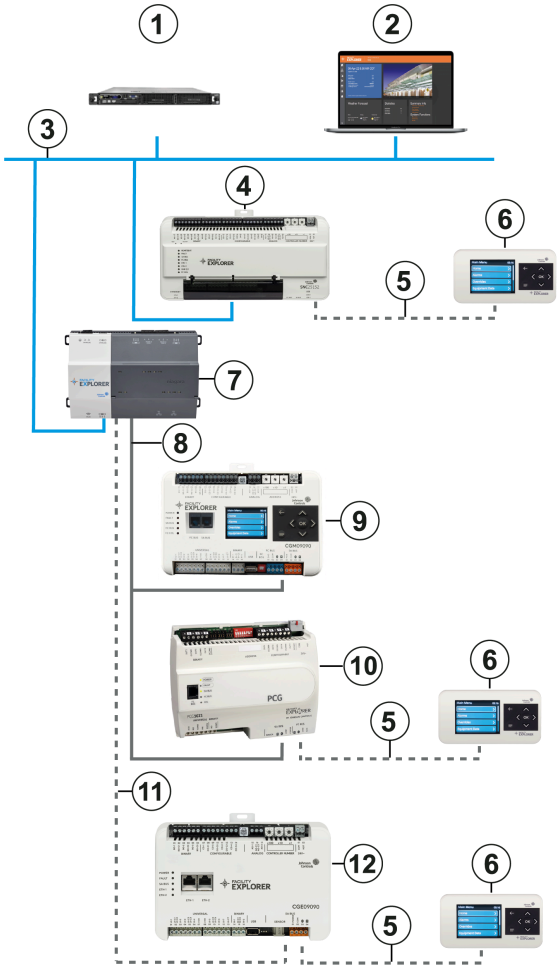
Use to specify settings such as password timeout, backlight intensity, time and date format, and many more.

Password protection (Optional)

Secures the display from unauthorized users.

Network diagram

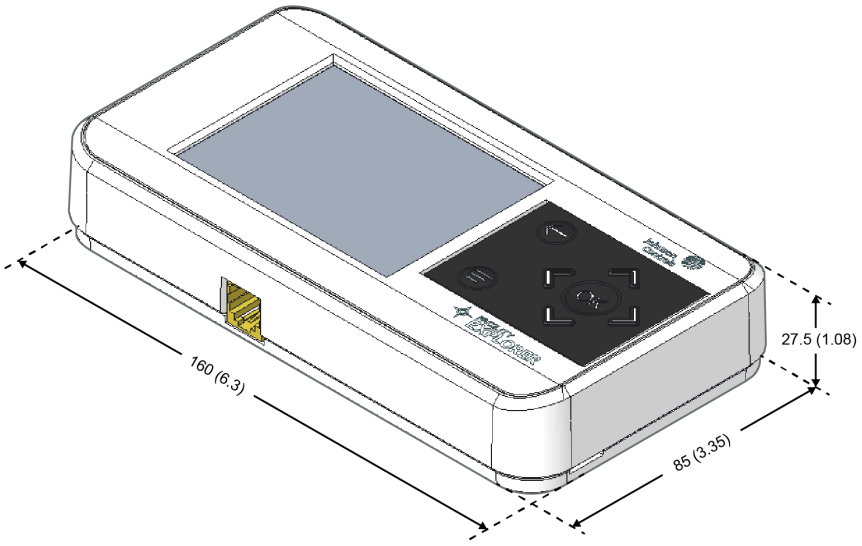
Figure 2: Network diagram example



Callout	Description
1	FX Server
2	System User Interface
3	Ethernet/IP network
4	F4-SNC with an F4-DLK0350 Local Controller Display connected
5	SA Bus connection
6	F4-DLK0350 Local Controller Display
7	FX80 Supervisory Controller
8	FC Bus connection
9	F4-CGM with integral display
10	PCG with an F4-DLK0350 Local Controller Display connected
11	BACnet/IP or BACnet/SC
12	F4-CGE with an F4-DLK0350 Local Controller Display connected

Mounting dimensions

Figure 3: DLK0350 dimensions, mm (in.)



Applications

The DLK0350 Local Controller Display is designed for use with controllers that do not have an integral display. You can install the display on the front panel of the enclosure that houses the controller or you can use the DLK0350 display as a portable device by plugging it into the SA Bus port of a compatible controller while on-site. When installed on the front panel of an enclosure, you can commission the controller without having to open the enclosure.

The display features a back-lit color LCD and tactile navigation keypad. You can conveniently adjust heating and cooling setpoints, view the room or outside air temperatures, view trends and alarms, and much more. For more information about how to operate the DLK0350 Local Controller Display, refer to the *Local Controller Display User Guide (LIT-12013984)*.

Display content and settings

The DLK0350 display provides access to all BACnet exposed application points and their associated alarms and trends, without display configuration required in the controller application. For information on how the display organizes the points, refer to the *Local Controller Display User Guide (LIT-12013761)*.

The display can also be customized by configuring the display object in the controller's application using the Controller Configuration Tool (CCT). With CCT you can:

- Define which application points are shown in the display
- Define the order and groupings of the application points
- Define which points are read-only and cannot be commanded using the display,
- Set the authorization for the display
- Set the display preferences, such as timeout settings

For more information about how to customize the display, refer to *CCT Help (LIT-12011147)*.

Ordering information

Table 1: DLK0350 ordering information

Product code number	Description
F4-DLK0350-0	F4-DLK0350-0 Local Controller Display

Note: The F4-DLK0350-0G is an orderable model that complies with Buy American Act requirements.

Accessories

Table 2: DLK0350 accessories

Product code number	Description
TL-PWRKIT-0A	Optional power supply; for North American power outlets only.
TL-PWRKIT-0D	Optional power supply; includes interchangeable blades for North America, Europe, UK, Australia, and China power outlets.
ACC-TBKPWFCSA-0	Power, FC Bus, and SA Bus terminal block replacement kit for SNC, CG series, CV series, CCM, XPM, and DLK products. Kit includes 5 of each terminal block type. 15 terminal blocks in total.

Technical specifications

Table 3: Technical specifications

Specification	Description
Power requirement	5.2 W
Power consumption	Typically 75 mA, maximum 100 mA. 1.2 W (nominal power without any loading on the SA Bus)
Power supply	11.3 VDC to 16.5 VDC
Ambient conditions	**Operating:** 0°C to 50°C (32°F to 122°F), 10% to 95% RH, Noncondensing **Storage:** -40°C to 80°C (-40°F to 176°F), 5% to 95% RH, Noncondensing
Communications protocol	BACnet MS/TP
Communications bus	BACnet, RJ12 6-pin modular jack, 4-wire pluggable screw terminal block
Processor	Renesas® RX651 32-bit Microcontroller
Memory	64 MB Flash memory and 32 MB SDRAM
Operating system	Unison RTOS
Network and serial interfaces	Communication to controller over SA Bus
Terminations	• SA Bus Port: RJ-12 6-pin modular jack • SA Bus Terminal: 4-wire pluggable screw terminal block
Mounting	Mount to the outside of the enclosure, 85 mm x 160 mm (3.34 in. x 6.3 in.)
Housing	Plastic housing material: ABS and polycarbonate
Protection	IP20 (IEC60529)
Graphic display resolution	320 x 240 pixels with white LED backlighting (adjustable)
Dimensions (height x width x depth)	85 mm x 160 mm x 27.5 mm (3.34 in. x 6.3 in. x 1.08 in.)
Weight	0.405 lb / 0.184 kg
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:** Johnson Controls declares that this product is in compliance with the essential requirements and other relevant provisions of the EMC Directive and RoHS Directive.
	Australia and New Zealand: RCM Mark, Australia/NZ Emissions Compliant
UK CA	**United Kingdom:** Johnson Controls declares that this product is in compliance with Electromagnetic Compatibility Regulations, The Electrical Equipment (Safety) Regulations, and Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations.

North American emissions compliance

United States

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.

Warning (Part 15.21)

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Canada

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

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

Industry Canada Statement(s)

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. L'appareil ne doit pas produire de brouillage, et
2. L'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Repair information

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

Product warranty

This product is covered by a limited warranty, details of which can be found at www.johnsoncontrols.com/buildingswarranty.

Software terms

Use of the software that is in (or constitutes) this product, or access to the cloud, or hosted services applicable to this product, if any, is subject to applicable end-user license, open-source software information, and other terms set forth at www.johnsoncontrols.com/techterms. Your use of this product constitutes an agreement to such terms.

Patents

Patents: https://jcipat.com

Single point of contact

APAC	EU	UK	NA/SA
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Contact information

Contact your local Johnson Controls representative: www.johnsoncontrols.com/locations

Contact Johnson Controls: www.johnsoncontrols.com/contact-us

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