FX15 FIELD CONTROLLER

FACILITY EXPLORER
BY **JOHNSON CONTROLS**

The Facility Explorer FX15 Field Controller offers a powerful and flexible solution for a wide variety of HVAC and refrigeration control requirements. The FX15 is designed to provide direct, closed loop control over mechanical HVAC or refrigeration equipment, either as a standalone device or as a part of a larger, networked control system. Both indoor and outdoor temperature range models are available, making it suitable for mounting in a control panel or inside the mechanical equipment.

Supported Inputs/Outputs

Up to 27 physical inputs and outputs can be directly connected to the FX15, including:

- 6 Analog Inputs: active or passive, software configurable

- 8 Digital Inputs: voltage free contacts

- 4 Analog Outputs: 0–10 V

- 9 Digital Outputs:
  - 4 SPST relays (250 VAC, 8A) and 5 SPST relays (250 VAC, 5A), or
  - 4 SPST relays (250 VAC, 8A) and 5 triacs (24 VAC, 0.5A),

Up to 64 additional inputs and outputs can be added to the FX15 by connecting XT/XP expansion I/O modules. This scalable architecture allows the FX15 to be used cost effectively on projects of various sizes and complexity.

Choice of Programming Environment

The FX15 supports two methods of application programming: configurable and fully programmable.

- Configurable: With the FX Builder Express Tool, you can select from a library of standard applications that were specifically developed for the FX15 and configure them to meet your specific control requirements using graphical plug-ins.

• **Programmable:** With the FX Builder Tool, you can develop a completely unique, custom control application for the FX15. The FX Builder Tool can also be used to open up and customize any of the applications in our standards library.

As a result, the FX15 can be adapted to meet most control requirements.

Optional User Interfaces

The FX15 supports an optional user interface, allowing the FX15's control points to be easily monitored and/or adjusted. Two styles of user interfaces are available: Medium and Large.

The Medium User Interface includes a 4x20 LCD display screen, 10 discrete status LEDs, and 6 pushbuttons. The Medium User Interface can be built into the FX15's packaging, mounted nearby in a panel, or mounted remotely on a wall.

The Large User Interface includes a 4x20 LCD display screen, 66 discrete status LEDs, and 28 pushbuttons. It can be remotely mounted on a wall or in a panel, or it can be used as a handheld user access device.

Each user interface is completely customizable, providing the ability to format the displayed information, structure its navigation, and assign passwords and access rights as desired.

Modular Networking

The FX15's usefulness is expanded by means of its modular networking capability. The FX15 can be used as a standalone controller, or it can be fitted with an optional network communication card, allowing it to be used in an N2-based or LonWorks®-based building automation system. Modular networking makes for a cost effective method to provide either standalone or networked capabilities.

Application Examples
• Air Handling Unit Controller
• Unit Ventilator Controller
• Packaged Rooftop Controller
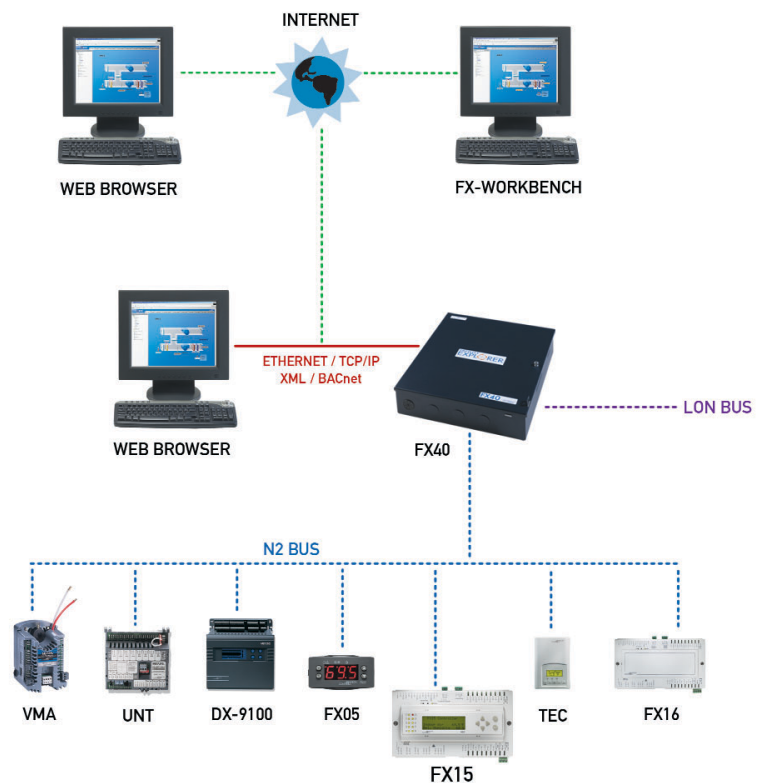• Heat Pump Controller
• Chiller Controller

Specifications:

General
• 24 VAC +/- 15%
• 15 VA

Ambient Operating Conditions
• –4° to 122° F (–20° to 50° C)
• 10-95% RH (non condensing)
• Expanded temperature range for outdoor applications also available

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