

FX14 FIELD CONTROLLER

FACILITY
EXPLORER

BY JOHNSON CONTROLS

The Facility Explorer FX14 Field Controller offers a powerful and flexible solution for a wide variety of HVAC and refrigeration control requirements. The FX14 will 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.

Supported Inputs/Outputs

Up to 29 physical inputs and outputs can be directly connected to the FX14, including:

- 6 Analog Inputs: active or passive, software configurable
- 12 Digital Inputs: voltage free contacts
- 2 Analog Outputs: 0-10 V or Pulse Width Modulated (PWM)
- 9 Digital Outputs:
 - 9 SPST relays (250 VAC, 8A), or
 - 5 SPST relays (250 VAC, 8A) and 4 triacs (24 VAC, 0.5A),

Choice of Programming Environment

The FX14 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 FX14 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 FX14. 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 FX14 can be adapted to meet most control requirements.



Onboard Scheduling and Alarming

You have greater application flexibility with onboard scheduling and alarm generation. The FX14 includes an embedded real-time clock that enables time scheduling of start/stop commands and setpoint changes to the control system. In addition, the FX14 can be configured to generate time-stamped alarms based on system or application events. It supports several methods for users to access the schedule and alarm information, depending on which optional accessories are selected.

Optional User Interfaces

The FX14 supports optional user interfaces so you can easily monitor and adjust control points. Two styles of user interfaces are available: Integral or Remote.

The Integral User Interface includes a 2 line, 4 character LCD display screen, 18 graphical status icons and 4 pushbuttons. The LCD's background color can be configured blue or red to indicate an alarm or other special condition. The Integral User Interface is built into the FX14 packaging for direct, onboard access.

The remote Medium User Interface (MUI) includes a 4 line, 20 character LCD display screen, 10 discrete status LEDs, and 6 pushbuttons. You can mount it nearby in a panel or remotely on a wall.

These user interfaces are completely customizable to format the displayed information, structure their navigation, and assign passwords and access rights as desired.

Modular Networking

The FX14's performance is expanded by modular networking capability. Use it as a standalone controller, or it can be fitted with an optional network communication card, to integrate in an N2-based or LonWorks®-based building automation system. Modular networking is a cost effective method to provide either standalone or networked capabilities.

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Optional Dial Out SMS Service

When used as a standalone controller, the FX14 can support an optional RS-232 communications card using a GSM modem for a remote dial out connection. This gives you the ability to send SMS (short message service) messages to report and notify alarms and events.

Application Examples

- Unit Ventilator Controller
- Heat Pump Controller
- Air Handling Unit Controller
- Refrigeration Unit Controller, including control of multi-compressor and scroll compressors

