The Facility Explorer FX06 Field Controller offers a powerful and flexible solution for a wide variety of HVAC and refrigeration control requirements. The FX06 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.

Supported Inputs/Outputs

Up to 17 physical inputs and outputs can be directly connected to the FX06, including:

- 4 Analog Inputs: active or passive, software configurable
- 5 Digital Inputs: voltage free contacts
- 2 Analog Outputs:
    - Two 0-10V, or
    - One 0-10V and one Pulse Width Modulated (PWM)
- 6 Digital Outputs:
    - 6 SPST relays (250 VAC, 3A), or
    - 2 triacs (24 VAC, 0.5A), 3 interlocked SPST relays (250 VAC, 3A), and 1 free SPST relay (250 VAC, 3A), or
    - 2 triacs (24 VAC, 0.5A) and 4 free SPST relays (250 VAC, 3A)

Programming Environment Flexibility

The FX06 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 FX06 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 FX06. 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 FX06 can be easily adapted to meet most control requirements.

Onboard Scheduling and Alarming

With its support of onboard scheduling and alarm generation, the FX06's application possibilities are expanded. An embedded real-time clock enables time scheduling of start/stop commands and setpoint changes to the control system. In addition, the FX06 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.

User Interfaces

The FX06 features a built-in user interface, allowing the control points to be easily monitored and/or adjusted. 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.

Plus, the FX06 also supports an optional, remote-mounted medium user interface (MUI). The MUI includes a 4 line, 20 character LCD display screen, 10 discrete status LEDs, and 6 pushbuttons. The MUI can be mounted nearby in a panel or remotely on a wall.

These user interfaces are completely customizable, so you can format the displayed information, structure navigation, and assign passwords and access rights as desired.
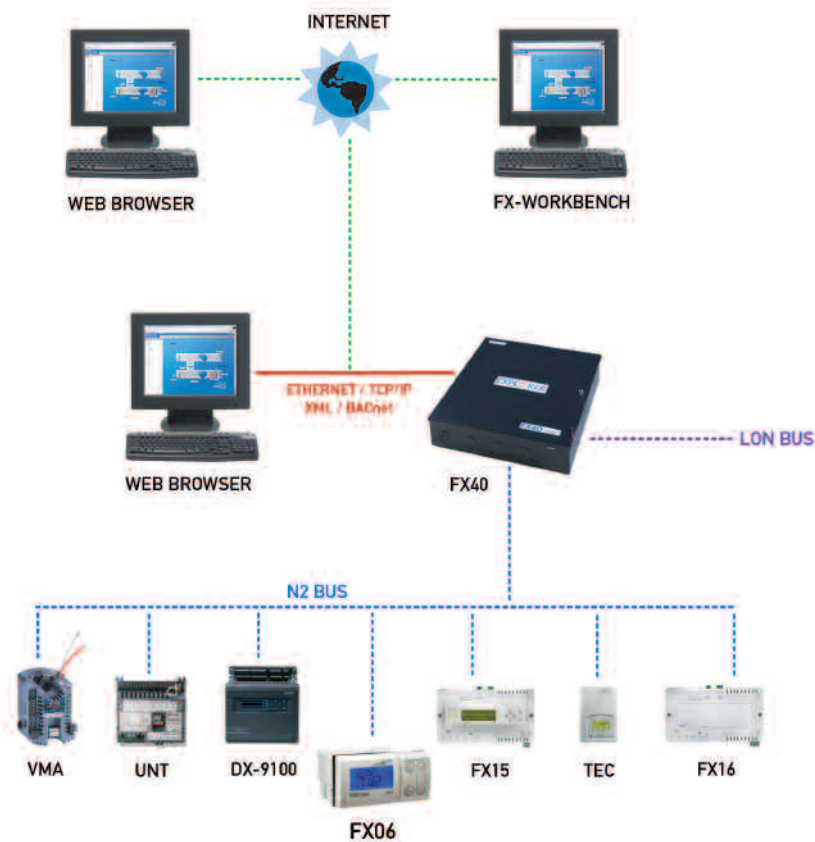
Modular Networking

Modular networking capability enhances its capabilties. The FX06 can be used as a standalone controller, or it can be fitted with an optional network communication card, so it can be used in an N2-based or LonWorks®-based building automation system. Modular networking makes for a cost-effective method to provide either stand alone or networked capabilities.

Optional Dial Out SMS Service

When used as a standalone controller, the FX06 can support an optional RS-232 communications card, which means you can connect an external GSM modem to be connected for a remote dial-out. This sends SMS (short message service) messages to report and notify alarms and events.

Application Examples

• Fan Coil Controller

• Unit Ventilator Controller

• Close Control Unit Controller

• Refrigeration Controller, including control of multi-compressors and scroll compressors

JOHNSON CONTROLS