

FB-FirePAC® - Architecture

ANSI / UL - 864 10th Edition Fire Alarm Control Unit
utilizing the Allen-Bradley ControlLogix® Platform



FireBus

Design

The FB-FirePAC[®] solution leverages standard ControlLogix[®] based hardware and is NRTL certified to the requirements of ANSI / UL 864 10th Edition.

Choice

FB-FirePAC[®] is certified compatible with FireBus and other leading devices so integrators and end-users can choose the field devices that meet their requirements.

Initiating Devices

A manually or automatically operated device, the normal intended operation of which results in a fire alarm or supervisory signal indication from the control unit.

Examples of alarm-initiating devices are:

Optical flame detection (UV, IR, UV/IR etc.), visual flame (CCTV), thermostats, manual boxes, smoke detectors, water-flow switches, and proof sensors.

Examples of supervisory signal-initiating devices are:

Water-level indicators, sprinkler system valve-position signals, pressure supervisory transmitters, and water-temperature switches.

Initiating devices are supervised and enter the system through standard 1756-IB16D 24 VDC digital input modules with diagnostics for contact closure type devices and through 1756-IF16(H) analog input modules for analog initiating devices.

Notification Appliances

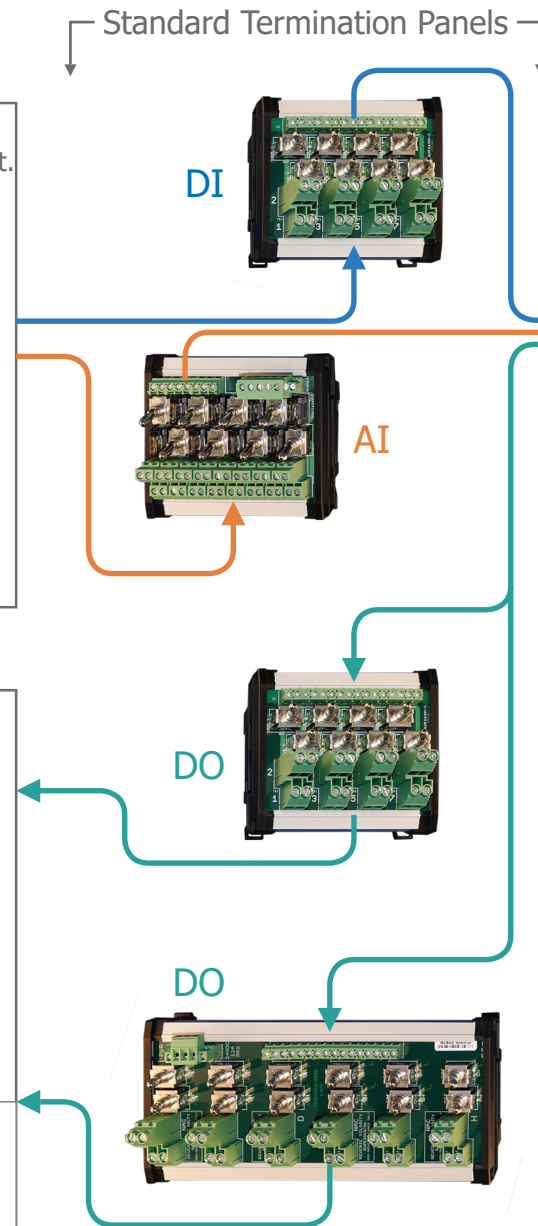
Notification Appliance: Any audible, tactile, or visual signal or any combination thereof employed to indicate a fire, supervisory, or trouble condition.

Examples include strobe lights, rotating beacons, horns and voice annunciation devices.

Notification appliances are supervised and controlled by standard 1756-OB16D 24 VDC digital output modules with diagnostics. Approved UL-864 Notification Appliance Circuits (NAC's) are created by combining with FireBus STP's.

Releasing

FB-FirePAC[®] is a "local protected premises system" that can also automatically initiate the release of an extinguishing agent upon the detection of an alarm condition.



INDUSTRIAL FIRE & GAS PROTECTION

ON A TRUSTED, UBIQUITOUS PLATFORM USING STANDARD HARDWARE AND SOFTWARE WITH A WIDE CHOICE OF FIELD DEVICES

Scaleable

After the dedicated Fire Panel I/O of the "core chassis", additional chassis can be added via fiber or copper and equipped with I/O for either expanded Fire Panel use or Combination System service.

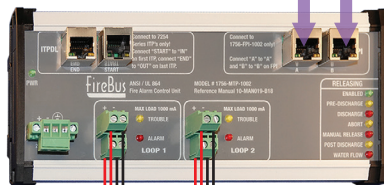
Flexible

For the first time, modern addressable smoke detection, heat detection, contact monitors, Notification Appliances, etc. are directly accessible to the ControlLogix® processor.

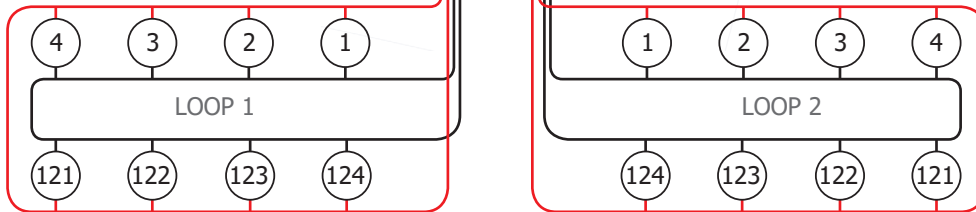
FB-FirePAC®
Core Chassis



Main Termination
Panel (MTP)



Photoelectric
Combination
Ionization
Contacts
Strobes
Heat



FireBus-AP Series® Loops
Two Addressable Smoke Detection
Loops, 124 Devices per loop,
Class B, A or X capable.

Standard Termination Panels

Standard Termination Panels (STP's) provide the installer and end user with field wiring connections that can handle large gauge wire to reduce voltage losses to remote or power-hungry field devices. In addition, they provide electrical disconnects for easy loop checks on discrete I/O and power switches with fusing for Analog Initiating Devices.

Reverse polarity supervision is provided for traditional fire alarm NAC's with up to 3 amps per circuit.

Studio 5000 Programming*

The FireBus "Fire Protection Interface" (FPI) module and its associated ITP's and FireBus-AP Series® field devices are all configured via an "Add On Profile" (AOP) within the Studio 5000 Logix Designer® software, just like other ControlLogix® hardware.

Custom "Add On Instructions" (AOI) provide support for a wide range of industry leading field devices.

*Logix Designer® Version 32 or greater Required



FireBus, LLC

FireBus provides enabling technologies to Fire & Gas System users and system integrators that broaden the field device choices while reducing restrictions on how they can be integrated in a certified solution utilizing the ControlLogix® platform.

These exciting new products bridge the gap between stand-alone fire panels, detection products and the world's most popular programmable automation controller line in a way that is friendly to the systems developer while meeting the required regulatory approvals and satisfying the Authority Having Jurisdiction (AHJ)

SAFE JUST GOT SAFER

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