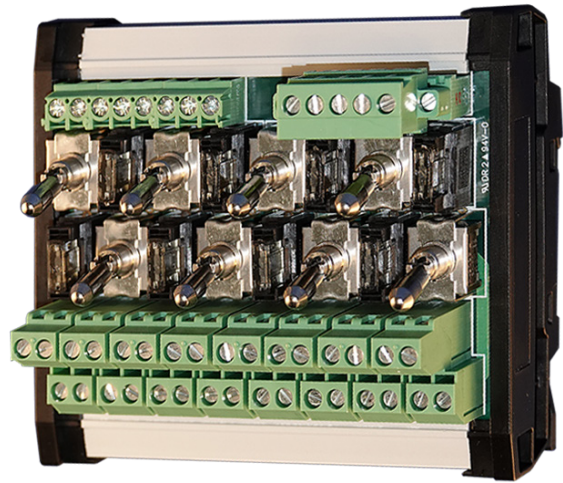




FB-FirePAC® Standard Termination Panel (STP) 8800-STP-08AI 8 Ch. Analog Input



Overview

FB-FirePAC is a Protected Premises Control Unit and Combination System that is NRTL tested and approved to meet ANSI / UL-864 10th Edition and various other UL & NFPA codes as required by this standard.

The FireBus 8 Channel Analog Input Standard Termination Panel (8800-STP-08AI) is designed to support Analog Initiating Device Circuits (AIDC). AIDC's in FB-FirePAC systems are "3-wire" analog field devices like flame detectors, gas detectors or other 24 VDC analog transmitters with a nominal 4 - 20 ma signal.

This Standard Termination Panel (STP) is completely passive having only terminals, a sealed two-position latching power switch and replaceable fuse. There are no active electronics to interfere with the analog input module of the Programmable Automation Controller (PAC).

STP Field Side Connections

Each of the eight channels has four field terminals a latching field device power switch and a fuse.

- Two lower deck terminals for 24 VDC power to field device
- Two upper deck terminals for analog signal and shield
- Field terminals support 24 AWG to 12 AWG wire
- Each channel has a 24 VDC field device power switch
- 2 Amp replaceable mini blade type fuse per channel

STP System Side Connections

The system side connections are factory wired into the PAC analog input module and power distribution sub-system. There are eight "fixed" terminals for the single-ended analog signals and a "pluggable" 24 VDC power connector.

Hardware Compatibility

The 8800-STP-08AI 8 Channel Analog STP is compatible with FB-FirePAC systems using the 1756 ControlLogix® platform from Rockwell Automation. Two 8 channel STP's are paired with a 1756-IF16 or 1756-IF16H 16 channel analog input module. ("H" variant has HART support)

Operation

The FB-FirePAC system supports Analog Initiating Device Circuits (AIDC's) for use in the fire & gas system and utilizes the ControlLogix 1756-IF16 and 1756-IF16H analog input modules to support these circuits. These modules are configured for "single-ended" operation which provides the maximum channel density of 16 analog inputs.

Two eight channel 8800-STP-08AI termination panels are required to support these sixteen signals.

The FB-FirePAC is designed to support "3-Wire" transmitters for AIDC's.

Two wires provide +24 VDC and 24 VDC Common to power the field device, the third wire is the "single-ended" signal from the field device that is a nominal 0 - 20 milliamp (ma).

The architecture of the STP is split in two, a system-side and a field-side. The terminals on the system-side are factory wired to the PAC analog input module or power distribution sub-system and are sized appropriately for internal cabinet wiring.

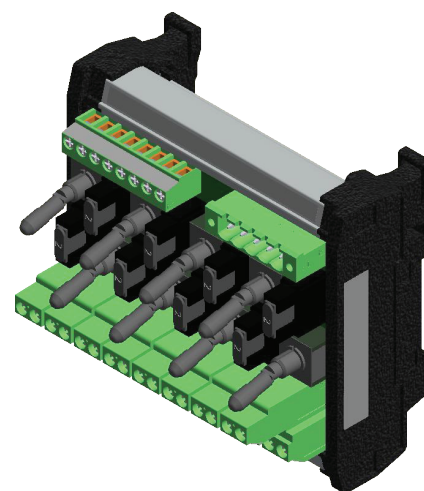
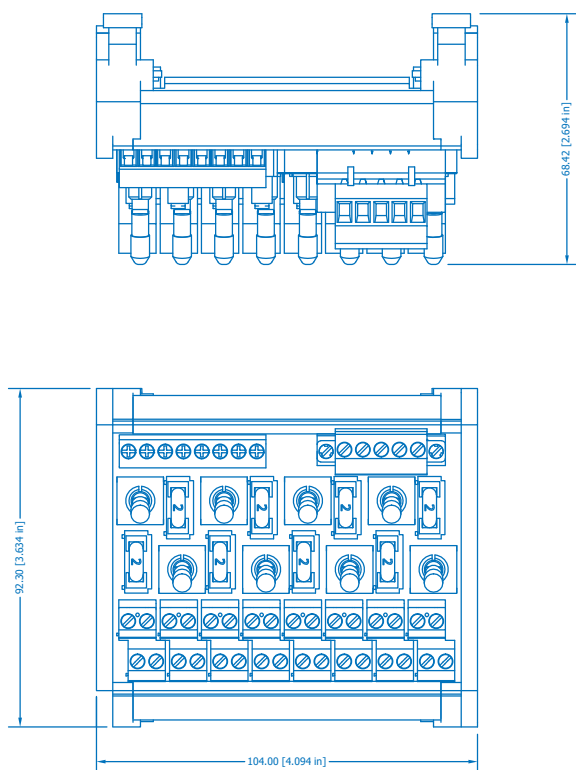
The terminals on the field-side are for landing three wire shielded cables from the analog field devices and are sized for up to 12 AWG field wiring.

Between the system and field sides each channel has a dedicated power switch and 2A fuse in line with the +24 VDC allowing the user to easily power down individual AIDC's for commissioning, maintenance and / or resetting latching field devices.

The 24 VDC power for each AIDC uses the lower two terminals and are marked with plus (+) and minus (-) polarity indicators.

The field devices' analog signal uses the upper two terminals for the channel. One terminal is marked with an "S" for the AIDC's cable shield wire which is routed to earth ground. The second terminal is for the analog signal and is marked with a signal number from 1 to 16.

<p>8 Channel Analog Term. Panel Part No 8800-STP-08AI</p> <p>FB-FirePAC on the 1756 ControlLogix Platform</p> <p>Designed for use with the ControlLogix 1756-IF16, 1756-IF16H Analog Input Modules</p> <p>Software Compatibility: Studio 5000 Logix Designer Rev. 32 and up.</p> <p>Device Configuration: Studio 5000 Logix Designer FireBus FB-FireLogix® Add On Instructions (AOI) for AIDC field devices.</p>	<p>Operating voltage: 18–30 VDC</p> <p>Communication protocols: None</p> <p>Current (24 vdc): Up to 2A per channel</p>	<p>EMI/RFI compatibility: Not Applicable, No active electronic components.</p> <p>Temperature range: Max. continuous operating 158°F (70°C) Min. continuous operating -4°F (-20° C) (no condensation/icing)</p> <p>Storage -40°F to +176°F (-40°C to +80°C)</p> <p>Humidity: 5 to 95% relative humidity (no condensation)</p>	<p>Approvals: Control Units and Accessories For Fire Alarm Systems [UL 864:2014 Ed. 10]</p> <p>Location rating: Class I, Div. 2, Groups B,C,D (Pending)</p> <p>4.094 in (104 mm) Wide 3.634 in (92.3 mm) High 2.694 in (68.4 mm) Deep</p> <p>Weight: 9.6 oz (272g)</p> <p>Materials: ROHS compliant</p>
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Ordering information:

8800-STP-08AI Standard Term. Panel, 8 Ch. Analog Input