

Technical Information
01-2025

Control System Compatibility

Ethernet-APL Rail Field
Switches



With its Ethernet-APL switch portfolio and control systems, Pepperl+Fuchs is conducting interoperability and netload tests to ensure reliable operation of automation networks. The control systems and its software that have been tested to work with Pepperl+Fuchs Ethernet-APL switches are listed in this document ¹. The test procedures used in these tests are outlined in the document "DCS Integration Test Specification.pdf," which can be obtained upon request.

The list will be updated whenever new releases of the Ethernet-APL switch PANOS firmware or the control system and accompanying software become available.

¹ Despite the careful preparation of the tests, the user is still responsible for verifying that the functionality requirements are met. We explicitly declare that no responsibility is taken for these tests, the outcomes, or the accuracy of the information provided.

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TDOCT-9569AENG



Control System

System	System 800xA		
Tested versions	System 800xA	PANOS Firmware	
	6.1.1	1.2.1, 1.2.2, 1.3.0	
Features	Feature	Supported	
	PROFINET	Yes	
	APL Switching	Yes	
	PA Device cyclic data	Yes	
	S2 Redundancy	Yes	
	MRP	Yes ¹	
	Simple Device Replacement	Yes	
	Dynamic Reconfiguration	Yes	
Diagnosics	Yes		
Notes	¹ Using external switch as MRP Manager		

Asset Management

System	ABB Ability™ Field Information Manager			
Tested versions	Field Information Manager	PANOS Firmware	FDI Package	FIMlet
	3.1	1.2.1, 1.2.2, 1.3.0	1.6.200	1.6.80
See FDI Package, FIMlet and Firmware release notes for details about the compatibility of FDI Packages and Firmware releases				
Features	Feature	Supported		
	Switch configuration	Yes ¹		
	PROFIBUS PA Proxy	Yes ²		
	Communication via FIM Bridge PROFINET	Yes		
	Communication via FIM Bridge 800xA 2.8	Yes ³		
Notes	¹ Device Settings menu fails after enabling an alert ² With FIMlet for Pepperl+Fuchs Rail Field Switches ³ The Diagnostic menu cannot be opened and the Device Settings menu does not show acknowledged alerts			

Siemens

Control System

System	System PCS 7	
Tested versions	PCS7	PANOS Firmware
	10.0	1.3.0
Features	Feature	Supported
	PROFINET	Yes
	APL Switching	Yes
	PA Device cyclic data	Yes ¹
	S2 Redundancy	Yes
	MRP	Yes
	Simple Device Replacement	Yes
	Dynamic Reconfiguration	Yes
Diagnostics	Yes	
Notes	¹ Driver generator support for PROFIBUS PA devices not available yet	

Asset Management

System	Plant Device Management (PDM)		
Tested versions	PDM	PANOS Firmware	FDI Package
	9.3	1.3.0	1.6.200
	See FDI Package and Firmware release notes for details about the compatibility of FDI Packages and Firmware releases		
Features	Feature	Supported	
	Switch configuration	Yes ¹	
	PROFIBUS PA Proxy	No ²	
Notes	¹ no UIP support to access the web server ² Communication to PA Devices is not supported by PDM. Standalone tools can be used instead.		