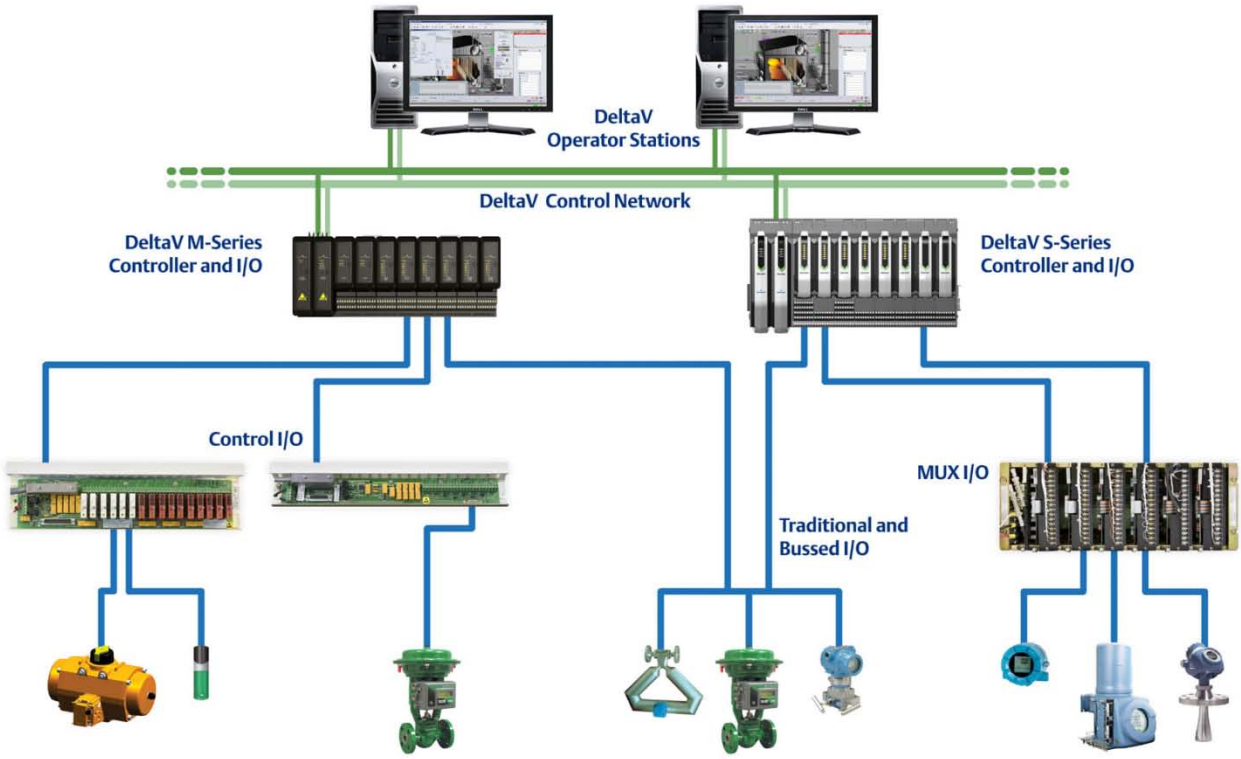
FlexConnect™ Solutions for PROVOX™ Control I/O



FlexConnect™ Solutions for PROVOX™ Control I/O

- Reduce business risks by minimizing process downtime
- Save 75% of installation costs
- Preserve HART® signals

Introduction

If concerns about downtime and wiring costs are preventing you from migrating your PROVOX™ system to a new DeltaV™ system, then consider FlexConnect™ Solutions for PROVOX Control I/O.

Benefits

Reduce business risks by minimizing process downtime. This solution brings device signals to DeltaV I/O from existing PROVOX I/O terminations. Keeping device wires intact accelerates the new system startup, enabling you to rapidly resume production.

Save 75% of installation costs. Eliminating new field wiring saves money and reduces the risk of errors. Time and materials savings are significant.

Preserve HART signals. Use HART® Pass-through for complete diagnostics at the DeltaV Operator Station.

Product Description and Specification

FlexConnect solutions provide direct connection from PROVOX Control I/O termination assemblies to M or S-Series DeltaV IO card terminal blocks. To simplify installation, Emerson can pre-wire the FlexConnect Solutions flying-lead instrument cables to DeltaV terminal blocks.

The following PROVOX point types have FlexConnect Solutions as described here:

Analog Inputs (AI)

Sixteen PROVOX Analog / SMART Inputs cable connects to two 8 channel DeltaV AI HART cards or one 16 channel DeltaV AI HART card.

Analog Outputs (AO)

Eight PROVOX Analog / SMART Outputs cable connects to an 8 channel DeltaV AO HART card.

Digital Inputs (DI)

Sixteen PROVOX Digital Inputs cable connects to two 8 channel DeltaV DI cards or one 32 channel DI card.

Digital Outputs (DO)

Sixteen PROVOX Digital Outputs connects to two 8 channel DeltaV DO cards or one 32 channel DO card.

Digital Inputs / Outputs (DIO)

Sixteen PROVOX Digital Inputs or Outputs connects to two 32 channel DeltaV DI/DO cards.

Ordering Information

For inquiries and ordering information, please contact your local Emerson sales office. Please specify required cable lengths on your request. For reference, FlexConnect Solutions for specific PROVOX Termination Panel Models are indicated in the following table: (Note: FlexConnect Solutions drawings are available upon request.)

FlexConnect Solution #	PROVOX Control I/O Models	PROVOX Signals	DeltaV I/O Card Types	FlexConnect Solutions Drawing Numbers	Solution Type
FC-P2-CBL-3-10	Analog Input CL6861, 62, 95(1), 96(1) SMART Input CL6881, 82, 95(1), 96(1)	16 AI	16 HART AI 8 HART AI (two)	FC-P2-AI FC-P2-CAB-AI	Cable Only
FC-P2-CBL-2-20	Analog Output CL6871, 72, 85, 86 SMART Output CL6885, 86	8 AO	8 HART AO	FC-P2-AO FC-P2-CAB-AO	
FC-P2-CBL-3-20	Analog / SMART Output CL6342 *Intrinsically Safe*	16 AO	8 HART AO (two)	FC-P2-IS-AO FC-P2-CAB-AO	
FC-P2-CBL-5-51	Discrete Input CL6343 *Intrinsically Safe*	32 DI	32 DI or 8 DI (four)	FC-P2-IS-DI FC-P2-CAB-DI	
FC-P2-CBL-3-53	Discrete Input CL6781, 83, 84, 87, 88	16 DI	32 DI	FC-P2-DI FC-P2-CAB-DI	
FC-P2-SOL-3-62	Discrete Output CL6781, 83, 84, 87, 88	16 DO	8 DO (two)	FC-P2-123-DO FC-UC-302	Cable and Interface Panel
FC-P2-SOL-3-82	Discrete Input / Output CL6781, 83, 84, 87, 88	16 DIO	32 DI, 32 DO	FC-P2-124-DIO FC-UC-305	
FC-P2-SOL-3-63	Discrete Output CL6781, 83, 84, 87, 88, Relay Output CL6773, 74, 75, 76	16 DO	32 DO	FC-P2-126-DO FC-UC-305	

Notes:

1) The CL6895 and CL6896 Analog / SMART input termination panels require CL6859 dual channel SMART input modules to be installed. Analog input single-ended modules will not pass the field signal to the DeltaV AI card; if these type of input modules are present on the termination panels they must be upgraded to SMART input modules.

Prerequisites

A preliminary site visit is required in order to survey installed control system architecture and electrical grounding practices, to document I/O models and numbers of each, and to review schedule constraints and turnaround objectives. Qualified Emerson engineers or technicians perform site reviews.

Services

For help in planning, justifying or implementing your system migration, contact your local Emerson representative. Expert consultants are available to advise you on a variety of concerns including safety system design, implementation and standards compliance; digital buses, wireless applications, control performance and process optimization.

To locate a sales office near you, visit our website at: www.EmersonProcess.com/DeltaV

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North America, Latin America:	+1 800.833.8314 or +1 512.832.3774

For large power, water, and wastewater applications contact Power and Water Solutions at:
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