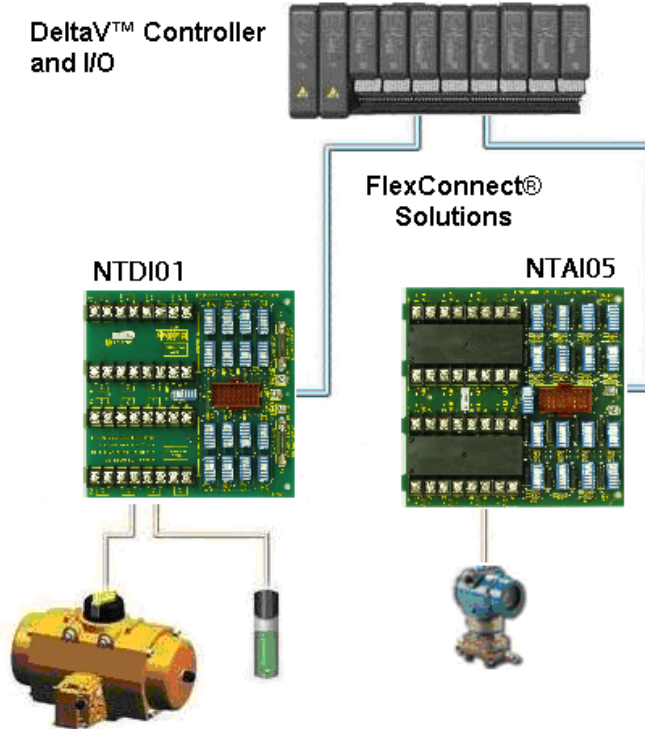




# FlexConnect® Solutions for Bailey® Systems



FlexConnect® solutions protect your wiring investment as you convert from Bailey® INFI 90® to the DeltaV™ system.

- 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 Bailey® INFI 90® or NET 90 system to a new DeltaV™ system, consider FlexConnect® Solutions for Bailey Systems.

## Benefits

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

**Save 75% of installation costs.** Eliminating new device wiring saves money and reduces 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 Bailey termination assemblies to DeltaV IO card terminal blocks. To simplify installation, Emerson pre-wires FlexConnect solutions to DeltaV termination blocks.

The following Bailey point types have FlexConnect solutions:

### Analog Inputs (AI)

Fifteen or Sixteen Bailey analog inputs connect to two 8-channel DeltaV AI HART cards.

### RTD Inputs

Sixteen Bailey RTD analog inputs connect to two 8-channel DeltaV RTD AI cards.

### Analog Outputs (AO)

Eight Bailey analog outputs connect to one 8-channel DeltaV AO HART cards.

Fourteen or Sixteen Bailey analog outputs connect to two 8-channel DeltaV AO HART cards.

### Discrete Inputs (DI)

Sixteen Bailey dry contact or voltage discrete inputs connect to two 8-channel cards or one 32 channel DeltaV DI card.

### Discrete Outputs (DO)

Sixteen Bailey discrete outputs connect to two 8-channel DeltaV DO cards.

### Relay Outputs

Sixteen Bailey relay outputs connect to two 8-channel cards or one 32-channel DeltaV DO card.

### NTCS02/NTCS04 Termination Panel

Up to four Bailey analog inputs, two analog outputs, three discrete inputs, and four discrete outputs per termination panel connect to 8-channel DeltaV I/O cards (AI, AO, DI, DO). Two types of FlexConnect solutions are available: interface panel and cables or cable-only solution.

### NT Termination Units

Termination units of this type are most common for all of the above point types. Supported models are listed in the Ordering Information.

### NI Termination Module

These mount in a 12 slot card rack and are less common than the NT terminations. Supported models are NIAI04 and NIDI01.



### Ordering Information

For inquiries and ordering information, please contact your local Emerson sales office. For reference, FlexConnect solutions for specific Bailey terminations are indicated in the following table.

FlexConnect® solutions organized by Bailey® Termination

Termination Model	Bailey Signals	DeltaV I/O card type	FlexConnect Drawing Number	Solution Type
NIAI04	15 AI4-20 mA	8 HART AI	FC_B1_CAB_NI_AI15	Cable Only
NTAI01 NTAI05	16 AI4-20 mA		FC_B1_CAB_AI16-1	
NTAI06			FC_B1_CAB_AI16-2	
NTAI03 NTAI04	16 RTD	8 RTD AI	FC_B1_CAB_RTD	
NTAI06			FC_B1_CAB_RTD-1	
NTAO01	8 AO	8 HART AO	FC_B1_CAB_AO8	
NIDI01	14 AO		FC_B1_CAB_NI_AO14	
NTDI01	14 AO	8 HART AO	FC_B1_CAB_AO14	
	16 AO		FC_B1_CAB_AO16	
	16 Dry Contact	32 Dry Contact	FC_B1_CAB_DI1 (24 Vdc)	
		8 Dry Contact	FC_B1_CAB_DI2 (24 Vdc / 120 Vac)	
	16 Voltage Inputs	8 DI Isolated	FC_B1_CAB_DI3 (24 Vdc / 120 Vac)	
	16 Voltage Outputs	8 DO Isolated	FC_B1_CAB_DO1 (24 Vdc / 120 Vac)	
	16 Dry Contact	8 Dry Contact	FC_B1_CAB_DSM05 (24 Vdc)	
	16 Voltage Outputs	8 DI Isolated		
	16 Sinking Outputs	8 DI Isolated		
16 Isolated Outputs	8 DI Isolated			
664201682	16 relay DO	8 DO	FC_B1_CAB_DO2	
NTDO01 NTDO02	32 DO	32 DO	FC_B1_126_DO, FC_B1_CAB_301, FC_UC-305	Interface Panel and Cables
NTCS02 NTCS04	4 AI, 2 AO 3 DI, 4 DO	8 AI, 8 AO 8 DI, 8 DO	FC_B1_131_AIO_DIO, FC_CAB_301, FC_UC_310	
			FC_B1_CAB_AIO_DIO	Cable Only

FlexConnect solution drawings are available upon request.



## Prerequisites

Preliminary review of site specifics including, but not limited to, installed control system architecture electrical grounding practices, I/O models and number of each, 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.

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**To locate a sales office near you, visit our website at:** [www.EasyDeltaV.com/reach](http://www.EasyDeltaV.com/reach)

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