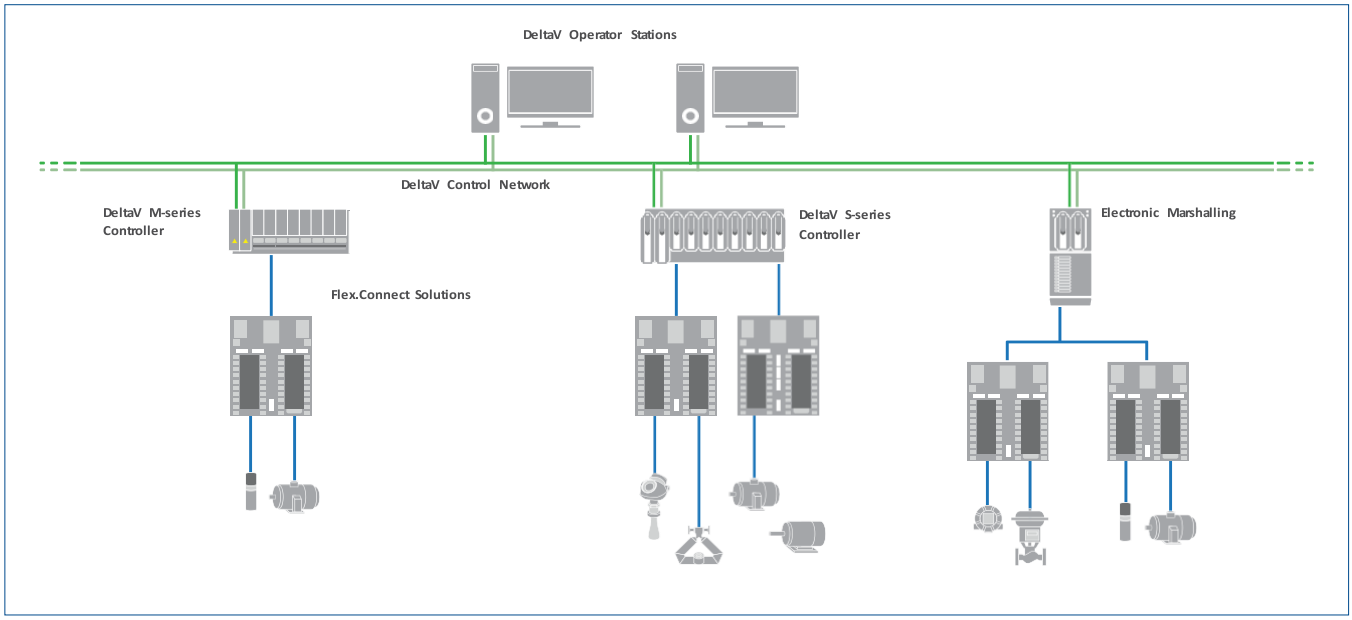
DeltaV™ Flex.Connect Solutions for Bailey® NET 90 & INFI 90® I/O



DeltaV™ Flex.Connect Solutions protect your wiring investment as you convert from Bailey® NET 90 & INFI 90® to the DeltaV™ system.

- Reduce business risks by minimizing process downtime
- Save on installation costs
- Preserve HART® signals

Introduction

If concerns about downtime and wiring costs are preventing you from migrating your Bailey® NET 90 & INFI 90® system to a new DeltaV™ system, consider DeltaV Flex.Connect 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 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 workstations.

Product Description and Specification

DeltaV Flex.Connect solutions provide direct connections from the Bailey NET 90 & INFI 90 I/O on Terminal Units (TUs) to DeltaV Electronic Marshalling (CHARMs) via flying-lead cables. Optionally, M- or S-series traditional I/O can be utilized in most of these solutions.

The following Bailey NET 90 & INFI 90 field wiring types have DeltaV Flex.Connect wiring solutions as described here:

Analog Inputs

Up to 16 Bailey two-wire 4-20 mA Analog Inputs (AI) connect to single- channel 4-20 mA HART DeltaV AI CHARMs.

Analog Outputs

Up to 16 Bailey 4-20 mA Analog Outputs (AO) connect to single-channel 4-20 mA HART DeltaV AO CHARMs.

Discrete Inputs

Up to 16 Bailey 24 VDC Dry Contact Discrete Inputs (DI) connect to single- channel 24 VDC DeltaV DI Dry Contact CHARMs.

Discrete Outputs

Up to 16 Bailey 24 VDC Discrete Outputs (DO) connect to single-channel 24 VDC HSS DeltaV DO CHARMs.

Discrete Outputs - Relay

Up to 16 Bailey Discrete Outputs-Relay (DO-R) connect to single-channel 24 VDC HSS DeltaV DO CHARMs.

Discrete Outputs - Opto

Up to 16 Bailey Discrete Outputs-Opto (DO-Opto) on Qty 2 8-channel Terminal Units connect to single-channel 24 VDC HSS DeltaV DO CHARMs with the integral relay terminal blocks. Both TUs are connected together with the NKDO01-2 cable.

Ordering Information

For inquiries and ordering information, please contact your local Emerson sales office. Please specify required cable lengths on your request. Maximum cable length is 30 meters. (Note: DeltaV Flex.Connect solution drawings are available upon request.)

DeltaV Flex.Connect solutions organized by Bailey® Terminal Unit

Flex.Connect Solution #	Bailey Terminal Unit Models	Bailey NET 90 & INFI 90 Series Signals	DeltaV I/O Types	Flex.Connect Solutions Drawing Numbers
FC-B1-CBL-3-10	NTAI01, NTAI05	15-Channel, 4-20 mA, AI, 2-wire	AI, 4-20 mA HART	FC-B1-AI15-1
FC-B1-CBL-4-11	NTAI06	16-Channel, 4-20 mA, AI, 2-wire	AI, 4-20 mA HART	FC-B1-AI16-2
FC-B1-CBL-4-40	NTAI06	16-Channel, RTD, AI	AI, RTD	FC-B1-RTD
FC-B1-CBL-4-41	NTAI03, NTAI04	16-Channel, RTD, AI	AI, RTD	FC-B1-RTD1
FC-B1-CBL-1-20	NTAO01	8-Channel, 4-20 mA, AO	AO, 4-20mA HART	FC-B1-AO8
FC-B1-CBL-2-21	NTDI01	14-Channel, 4-20 mA, AO	AO, 4-20mA HART	FC-B1-AO14
FC-B1-CBL-4-22	NTDI01	16-Channel, 4-20 mA, AO	AO, 4-20mA HART	FC-B1-AO16
FC-B1-CBL-4-50	NTDI01	16-Channel, 24 VDC, DI, Dry contact	DI, 24 VDC Dry	FC-B1-DI16
FC-B1-CBL-4-60	NTDI01	16-Channel, 24 VDC, DO	DO, 24 VDC HSS	FC-B1-DO16
FC-B1-CBL-4-61	6642016D2	16-Channel, DO-Relay	DO, 24 VDC HSS	FC-B1-DOR
FC-B1-CBL-4-62	NTDO01, NTDO02	8/16-Channel, DO-Opto	DO, 24 VDC HSS with Integral Relay Terminal Blocks	FC-B1-DO-OPTO

Ordering Information (Cont'd)

Manufactured cables are available in the following lengths: 1, 3, 5, 10, 15, and 30 meters. For analog I/O we recommend the twisted-pair versions. For discrete I/O we recommend non-twisted pair. These cables are 24 and 36-Pin pluggable on one end, straight through, open-end / flying lead on the other end, all open wires marked with the corresponding pin number and have ferrules on each wire, 24 AWG, shielded, and 16 inches of flying-lead to connect to the DeltaV I/O terminal blocks. Contact your local Emerson representative for pricing and availability.

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.

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