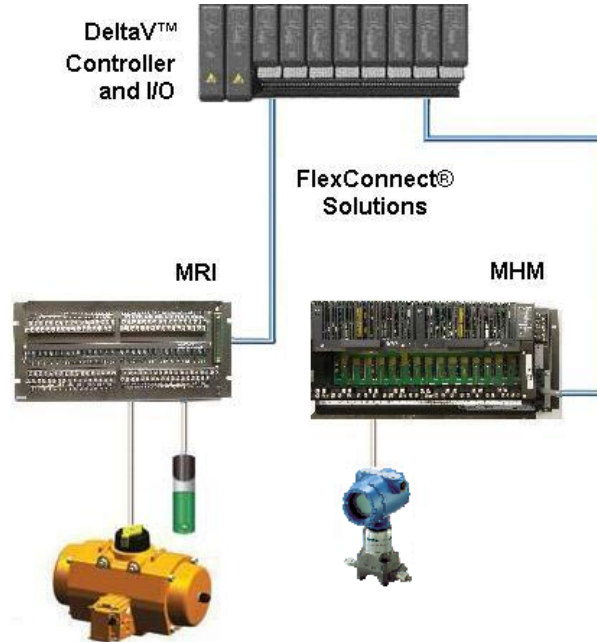




## FlexConnect® Solutions for Yokogawa® Systems



FlexConnect® solutions protect your Yokogawa® system wiring investment during migration to a 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 Yokogawa® Centum® or MicroXL system to a new DeltaV™ system, consider FlexConnect® Solutions for Yokogawa Systems.

### Benefits

**Reduce business risks by minimizing process downtime.** This solution brings device signals to DeltaV I/O from existing Yokogawa 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 connect Yokogawa Input and Output (I/O) terminations to DeltaV I/O card terminal blocks. To simplify installation, Emerson pre-wires FlexConnect solutions to DeltaV termination blocks. These solutions are cable-only or combination of FlexConnect interface panel and cable.

### Analog Inputs (AI) and Analog Outputs (AO)

Typically, Yokogawa MicroXL and Centum-XL analog I/O terminate at a 16-point MHC or MHM signal conditioner nest. The MHC nest is primarily for VM analog I/O cards, while the MHM nest is for

MAC loop control I/O. In the MHM nest, signal conditioner input cards install in odd-numbered slots and output cards install in even slots.

The MHC and MHM FlexConnect solutions use pass-through cards, KS1 cable, interface panel and cables. Supported Analog point types include general-purpose I/O, control-loop I/O, RTD, Pulse and Frequency inputs.

### Discrete Inputs (DI) and Discrete Outputs (DO)

FlexConnect solutions are available for Yokogawa relay and contact inputs, as well as discrete outputs.

## Ordering Information

For inquiries and ordering information, please contact your local Emerson sales office. For reference, FlexConnect solutions for specific Yokogawa signal conditioner nests and terminal blocks are indicated in the following table.

FlexConnect® solutions organized by Yokogawa® Termination

Termination Model	Yokogawa Signals	DeltaV I/O card type	FlexConnect Drawing Number	Solution Type
MHC MHM	16 AI 4-20mA, 2-wire	8 AI 4-20mA	FC_YO_101, FC-YO-105; FC_YO_102, FC-YO-105	Interface Panel and Cables
	16 Pulse or Frequency Inputs	8 channel Multi-Function Card		
	16 AO	8 AO 4-20mA		
	16 RTD	8 RTD	FC_YO_RTD 8, FC-YO-105	
MRI 214, 224, 234	32 Relay Inputs	32 DI 24VDC	FC_YO_202_DI	
MRI 114, 124, 134 MUD	16 Relay Inputs or Contact MUD		FC_YO_203_DI	
MRO 114, 124, 134, 144, 154, 164	16 Relay Outputs	32 DO 24VDC	FC_YO_212_DO	
MRO 214, 224, 234, 244 254, 264	32 Relay Outputs		FC_YO_212_DO	Cable Only

FlexConnect solution drawings are available upon request.

For these Yokogawa I/O types, contact your local Emerson sales office to discuss solution options:

- Terminal boards that directly connect to the I/O cards
- Centum CS, CS 3000 and CS 1000 I/O terminations



## 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.

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

**...or call us at:**

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Europe, Middle East:	41.41.768.6111
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