

Emerson Modernization Solutions

Getting there with minimum risk and cost is Emerson's goal for all modernization projects. It is time to modernize your aging, unsupported PLCs. The DeltaV™ control system delivers cutting edge technology, flexibility and ease-of-use to positively impact your business for the next generation.

DeltaV PK Controller

At the heart of the solution is the new DeltaV PK Controller. Powerful and versatile, it can standalone, be the mainstay controller in a new DeltaV system or easily integrate with an existing DeltaV system at any time.

To enable a fast, error free cutover without lifting existing field wiring, an innovative solution has been developed to fit in the same footprint as a standard 1771 I/O chassis.

Utilizing the PLC I/O module swing-arms, existing field wiring terminations are guided back onto a specially designed DeltaV signal conditioning card to pass the signals to standard High-Density Series 2 Plus DeltaV analog input and discrete I/O cards.

Reusing the same footprint will reduce project cost by eliminating the need for new cabinets and re-terminating field wiring. Maintenance personnel will appreciate that they will be able use a multi-meter at the swing-arms to test the field signals.

The initial release, released April 2020, supports some of the most commonly used non-isolated channel-to-channel card types, as listed below:

- 1771-IAD, 16-channel, discrete input, 120 VAC,
- 1771-OAD, 16-channel, discrete output, 120 VAC,
- 1771-IBD, 16-channel, discrete input, 24 VDC,
- 1771-OBDD, 16-channel, discrete output, 24 VDC,
- 1771-IFE; 16-channel, analog input, 4-20 mA, single-ended.

To support increased customer demand, these additional isolated channel-to-channel card types were released in February 2021, as listed below;

- 1771-ID16, 16-channel, discrete input, 120 VAC,
- 1771-OD16 & -ODD, 16-channel, discrete output, 120 VAC,
- 1771-OW16, 16-channel, discrete output relay, 120 VAC.

***Modernize to DeltaV Control
with minimal rewiring
and no additional space.***

The solution is also fully applicable for 1771 I/O found under SLC™ 500, ControlLogix® and other control systems.

Typical Installations

The solution is a great fit to replace standalone PLC systems with a DeltaV PK Controller based system which can remain standalone, grow as a plant's main automation platform or merge into a new or existing DeltaV system at any time.

Scalable DeltaV PK Controllers and the 1771 I/O solution can be cost effectively used to replace PLC-5, SLC 500 or ControlLogix systems currently interfaced to a DeltaV system. The benefits of natively merging into a common platform will be realized with reduced spare parts, elimination of tag mapping, common engineering tools and lower training costs.

Services

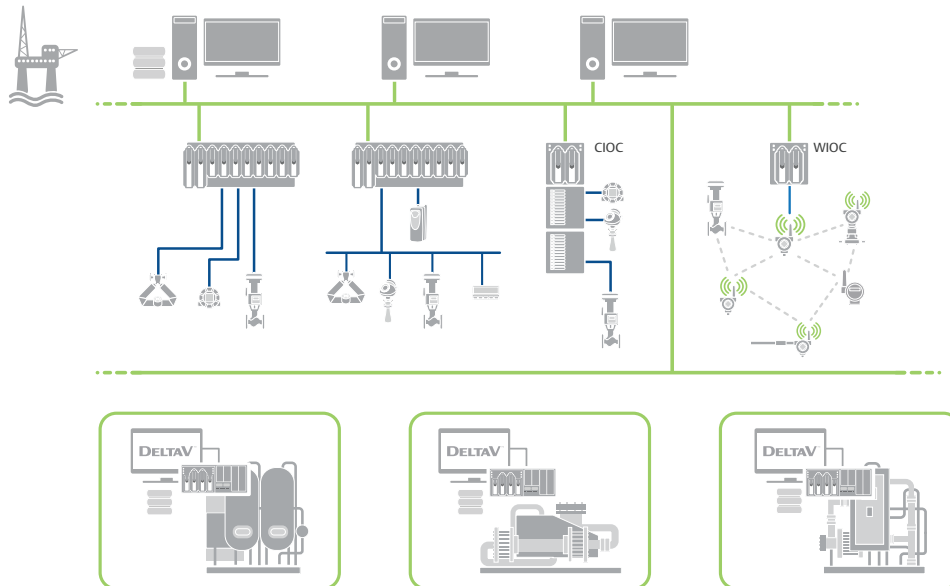
Emerson and our Impact Partners have vast experience modernizing legacy systems with over 6304 projects delivered. Of these more than 1079 have been PLC systems. Unrivaled project management, planning, and execution services will ensure a smooth transition to a new DeltaV control system. In addition, sophisticated tools are available to lower the risk of errors when engineering the application and ensure the latest control capabilities are utilized to improve operations.

For more product solution details:

To locate a sales office near you: **Contact us.**

To learn more about Emerson migration capabilities: **Modernization & Migration.**

For large power, water, or wastewater applications: **Ovation.**



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