

Service Note

Universal Horizontal IO Migration Kit



Migrate to Newer and More Powerful Platforms with Minimal Disruption

Honeywell's Universal Horizontal IO (UHIO) migration kit allows your field wiring to stay in place and be upgraded to the Experion® Process Knowledge System (PKS).

Benefits

Upgrading from TDC 2000 Data Hiway Controllers to C300 enables powerful modern features. The ability to take advantage of redundant controllers and I/O, embedded Profitloop, CAB (Custom Algorithm Blocks), and access to enterprise applications deliver robustness, flexibility, and process control benefits.

Maintain Wiring

In the Experion system field I/O wiring is connected through various termination assemblies. Signals are then passed to the appropriate IOP or I/O module. The field wiring connections of your existing termination panels combine with the addition of the new migration kit assemblies to provide communication to the I/O module which then communicates with the field wiring through a simple and quick plug-in migration.

No New Cabinets

Since the wiring stays in place, various termination panels remain, and consequently the cabinets in which they are installed will remain. If your wiring panels share cabinet space with your files, as is often the case, Honeywell has developed mounting kits to enable using current Hiway cabinets for mounting the C300 Controller.

The capability of installing the new system into your current Hiway cabinets is a significant feature of the UHIO hardware. During the migration process, all files are removed, creating cabinet space. Some of that space is taken up with migration assemblies, but in nearly all cases, there is sufficient remaining space to mount the new C300 hardware.

Basic and Extended Controller Migration with Universal IO

The introduction of the Universal IO in Experion enhances the previous Signal Match solution. The Universal IO provides a flexible I/O solution as well as HART capability. The new UHIO provides replacement of Basic and Extended Controllers in the existing Cabinet.

The migration is performed by removing the files, but keeping in place both the termination panels with wiring and cables.

The first two controllers are replaced with one UHIO each, however subsequent replacements are at a ratio of 1:2, meaning that for each UHIO rack installed, two controllers are removed. This ensures additional I/O capabilities while reducing the space required.

Installation and Power

Mounting kits have been developed to enable installing the modules into your existing Hiway cabinets. A new power supply assembly uses the standard C300 power supply that mounts in the same space as the existing Hiway power supply. This flexible power supply can be used to power both the new C300 and existing Hiway devices.

General Migration Information

Other Signal Match migration kits cover many Hiway system types. Often, an installation will have several types and some or all can be included in the migration to newer systems.

This Signal Match migration description speaks only to migration hardware. Additional planning and costs are involved. In order to determine the most efficient and cost-effective migration strategy, Honeywell offers a system assessment of each customer's specific requirements.

For More Information

Learn more about how Honeywell's Universal Horizontal IO migration kit can help you modernize with minimal disruption, visit our website www.honeywellprocess.com or contact your Honeywell account manager.

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