

Product Information Note

PlantCruise by Experion Series 8 I/O Modules



The Series 8 I/O and controller modules in PlantCruise by Experion leverage Honeywell's leadership in process control technology with an innovative design. Designed for PlantCruise, Series 8 I/O modules deliver unmatched benefits.

The unique design combines a sleek style and function to provide process I/O with a compact footprint, efficient installation and maintenance, and long product lifecycle. The Series 8 form factor benefits extend to multiple modules, such as the Series 8 C300 Controller, HART analog input and output modules, and digital input and output modules.

Series 8 customers realize the following benefits:

- Designed vertical, removable, two-tier wiring terminations provide easily accessible wiring to reduce installation and maintenance costs.
- High density modular construction delivers an optimized footprint and reduced total installed costs
- A redundant power system using commercial off the shelf 24V power supplies.
- Angled module form factor creates a uniform heat distribution to extend module life by reducing hot spots

Full module redundancy with no shared backplane provides high availability and a long lifecycle.



Efficient Wiring Installation and Maintenance

Traditionally, I/O modules include horizontal wiring terminal blocks with hard to reach layered terminals. Trying to avoid this difficult wiring often means adding additional remote termination panels, as well as giving up the potential footprint and compact benefits gained from those modules. When using the I/O module terminal blocks themselves, wiring a cabinet with horizontally-oriented terminal blocks requires multiple 90-degree turns and inefficient wire bundles.



Series 8 modules solve this dilemma with their designed-vertical innovation. The Series 8 cabinet architecture eliminates forced 90-degree turns as the wire enters the cabinet vertically and can run directly to terminal strips without multiple bends and turns. Series 8 modules also feature an integrated and removable wiring termination area that is easily accessible and provides a clear wiring base for local terminations. In many cases, the number of terminations required can be reduced over horizontal wiring by efficiently wiring directly to the Series 8 I/O termination assemblies.

Cleaner and less complex wire routing and better access to terminal blocks increases maintainability and reduces costly mistakes. Using Series 8 modules can save three minutes per point on a typical installation over traditional four-tier horizontal wiring, saving up to \$10,000 on a 5,000 point project.

Reduce Total Installed Cost with Maximum I/O in Minimum Footprint

Series 8 I/O modules are integrated with field wire terminations to provide a more reliable system while also reducing the overall footprint.

Other I/O cabinet offerings deliver a typical footprint 5-75% larger than Honeywell's Series 8 I/O. Reducing the footprint reduces cost throughout the entire build cycle— from the panel shop to the final installation, including shipping costs.

Optimize Lifecycle and Availability

Several Series 8 features combine to reduce lifecycle costs and ensure system availability. Building upon Honeywell's long tradition in delivering robust I/O, Series 8 offers the following high-availability features:



- The innovative slanted angle directs heat flow evenly through the cabinet, keeping components cooler to improve product lifecycle.
- With no common backplane, single points of failure are eliminated. More importantly, the scope of loss of multiple components is significantly reduced.
- Fuses are not required due to enhanced Field Wiring Protection.
- Modules are available in redundant configurations. With a redundant base assembly, a second module can be added at any time to create a redundant pair.
- Honeywell's proven I/O Link technology provides the backbone between the modules, delivering a secure, robust, and cost-effective infrastructure.

For More Information

To learn more about how Honeywell's PlantCruise by Experion Series 8 I/O Modules can improve plant performance, visit our website www.honeywellprocess.com or contact your Honeywell account manager.

Honeywell Process Solutions

Honeywell
1250 West Sam Houston Parkway South
Houston, TX 77042

Honeywell House, Arlington Business Park
Bracknell, Berkshire, England RG12 1EB

Shanghai City Centre, 100 Junyi Road
Shanghai, China 20051

www.honeywellprocess.com

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