

Simplify Operations and Lower Lifecycle Costs with SmartLine and Experion

Solution Note

The SmartLine transmitters combined with the Experion control system improve plant uptime and reduce maintenance costs. Find out how.

Honeywell's SmartLine® transmitters deliver a new level of efficiency, especially when integrated with Honeywell's award-winning Experion® process control system.

Together, SmartLine and Experion help increase operator efficiency through transmitter messaging, which allows real-time communication between control system and the field instrument. Additional transmitter diagnostics help identify the instruments that are ready for maintenance, increasing safety, improving process performance and reducing downtime.

In addition, the SmartLine modularity allows individual transmitter parts to be replaced in the field without a line break. This reduces maintenance costs and increases process uptime. Honeywell's Field Device Manager (FDM) allows early detection of issues through its dashboard, which shows the health status of all SmartLine instruments. When using the SmartLine firmware upgrade tool, updates can be made minimum time and effort.



Combining the Experion control system with SmartLine transmitters helps plants improve their efficiency.

FEATURES & BENEFITS

- Transmitter messaging allows real-time communication between the Experion control system and the SmartLine instrument, increasing operator efficiency.
- Additional transmitter diagnostics identify the instruments ready for maintenance, increasing safety, improving process performance and reducing downtime.
- Modularity allows individual transmitter parts to be replaced in the field without a line break. This reduces maintenance costs and increases process uptime.
- The Field Device Manager allows early detection of issues through its dashboard, which shows the health status of all SmartLine instruments.
- Modularity combined with a firmware upgrade tool enables fast and easy maintenance and updates.

Transmitter Messaging

Transmitter messaging provides a free-form capability, allowing the control room operator to send a specific message to the transmitter which can then be read by the technician in the field. This ensures that the technician carries out the right task on the right device increasing plant safety.

SmartLine transmitters provide maintenance mode indication and system status displays in combination with Experion to provide an additional level of safety awareness. This functionality also provides information on which transmitters are active, advising plant personnel of the transmitter status.



Modular Design

SmartLine products offer a level of modularity, which makes it easy to make field replacements. This means that buying decisions can be made for the plant's current requirements, knowing that modules can be easily upgraded or replaced later. SmartLine modules are robust; they may be removed under power and in almost all electrical and safety environments except explosion-proof environments, where opening the field enclosure is prohibited. SmartLine modules are also designed to be easily removed and reinstalled. By using connection hardware that provides good registration and tactile feedback, not only are the modules easily removable, they can be quickly, properly and confidently reinserted.



Instrument Health Status

Early detection of instrument abnormalities provide users the ability to address issues before they disrupt real time process operations. The FDM Area Health Views allows users to see the health status of user defined groupings of instruments. In this view, a drill-down to the detail instrument page allows users to quickly diagnose issues and proactively develop a maintenance plan.

Fast and Easy Upgrades

SmartLine's modular design and the ability to replace modules in the field help avoid process shutdown and lower maintenance time. Modules are kept fresh and current with SmartLine's ability to upgrade firmware by using the SmartLine Anytime Tool (SAT). Typically, preparation of spare modules with the latest firmware or additional options can be performed in lab offices before field replacement. The ready-to-use spare modules are then easily swapped with the on-process transmitter module.

Upgrading firmware was not a common function in previous generation of transmitters since there was not a need or ability to do so. The current generation of smart devices continue to change and offer better functions, which now drives a need to upgrade installed devices to better protect existing investments. SmartLine's easy firmware upgrades plus its modular replaceable components offer a unique solution to keep the installed transmitters current at the lowest cost.



Take Advantage of SmartLine with Experion

SmartLine with Experion has changed the whole user experience. Designed from the ground up with a step change in technology, SmartLine offers industry leading transmitter performance. When combined with the Experion control system, SmartLine transmitters provide an automation ecosystem that delivers increasing value in all areas of a plant.

SmartLine Transmitter Family

The SmartLine Pressure, Temperature, Level and Multivariable Transmitters deliver total value across the entire plant lifecycle, from construction to operations to maintenance.

Smart Performance: SmartLine accuracy, stability and response time result in tighter process control, improving product yield and quality.

Smart Design: SmartLine's innovative modular design reduces complexity by allowing quick on-field replacement of parts without taking transmitters out of process and thereby reducing downtime, maintenance costs and spares inventory. SmartLine's universal terminals reduce costly wiring errors, troubleshooting and re-work by allowing loop wiring to be reversed. Rich advanced display and local configuration capabilities enable field operators to more efficiently perform tasks, solve problems and avoid errors with no need for a handheld device.

Smart User Experience: Smart messaging, maintenance and safety features as well as unique integration with Honeywell's Experion control system reduce design and operator errors and enable faster intervention to avoid process upsets.

SmartLine Support Services

This product comes with worldwide, premium Technical Assistance Center (TAC) support services, which are part of the Total Care Field Instrumentation Services. The TAC services, along with the services provided by the local distributor, are designed to help customers improve and extend the usage of their field instrumentation, providing a safer, more reliable and more efficient operation.

Honeywell's Total Care Services bring 30 years of experience in terminals and the expertise of over 1,000 contracted customers around the world. Backed by the Honeywell Operating System, our support teams deliver greater in-depth domain and product expertise. We'll provide the right solution to critical issues—the first time—for a safer, more reliable and more efficient operation.

For More Information

To learn more about how Honeywell's SmartLine transmitters together with Experion can improve plant operations, visit www.smartlinewithexperion.com or contact your Honeywell Account Manager, Distributor or System Integrator.

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