

OneWireless Solutions Improve People and Process Efficiency with Proven Results



Honeywell's OneWireless™ solutions offer an evolutionary opportunity to turn more information into knowledge across the plant, leading to optimized productivity, and improved safety, compliance and asset reliability. Without wire, transmitters can access information otherwise inaccessible and provide additional data to advanced process control, simulation and asset management applications.

Honeywell's wireless-enabled solutions have helped customers meet specific challenges beyond just avoiding wiring costs. Shedding the wires provides manufacturers with the freedom and flexibility to creatively solve difficult challenges, such as enabling a more productive workforce with:

- Mobile staff operating their desktop applications and control room displays on handheld computers
- Real-time data and collaboration tools for field employees to make decisions
- Input/output modules and sensors to monitor real measurements in the plant versus inferred values or manual measurements
- Voiceover IP for communicating among all field workers equipped with Wi-Fi devices
- A real-time location system throughout the facility to monitor employee locations and ensure safe procedural operations
- Integration with existing control and safety systems

Data flowing to the operator, either as trends or visualizations of process data, is available as an extension of the control system. Given the right permissions on a system, wireless technologies would extend those capabilities even further, allowing the field operator to actually control the plant from the field if required or desired.

In addition, data from the field operator to the control system and advanced applications supports work-process-enabling applications that guide field operators and maintenance personnel through tasks associated with daily rounds and asset inspections. This enables a structured and scheduled methodology consistently across an organization. This not only

results in the distribution of data across the enterprise but also enhances current work practices with work processes management from a technology-enabled approach.

Improved Employee Productivity and Effectiveness

Input and response capabilities of wireless systems allow field personnel to send and receive observations, perform procedures, communicate with smart instruments, and initiate or execute work orders while on site. With automated field data collection systems, maintenance and equipment data can be collected with up to 30 percent fewer hours than manual systems and better than 99 percent accuracy.

Enable Predictive and Proactive Maintenance

The computerized capture and download of large amounts of processing and equipment data allow for reporting of information that a paper-based system simply can't provide. This information can be used to keep mission-critical processes online and producing at top capacity. Maintenance engineering and console supervisors can use the field collected mechanical information to detect and diagnose potential process interruptions rather than simply responding to equipment failures.

Field Task Lists and Work Management

Task lists and work orders can be assigned at a central location and then transferred to separate operating units or individual wireless handheld devices. This can aid in the balance of maintenance crew workloads and operator rounds. The type of information sent to the handheld devices includes work orders, tasks, procedures, P&ID drawings, or



alphanumeric data (equipment location/type, serial numbers, testing/repair procedures, etc.), and images. The handheld devices can return completed records and inspection results including individual signatures.

Compliance Management Tools

Many Program Quality Verification (PQV) and Process Safety Management (PSM) requirements for data recording, collection and reporting can now be rapidly and accurately captured by field personnel and downloaded to industrial databases for reporting, analysis and work planning.



More Information

For more information on Honeywell's OneWireless solutions, visit www.honeywell.com/ps/wireless or contact your Honeywell account manager.

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Honeywell offers integrated solutions to enable safe operations using wireless-enabled technology. Our approach is unique in solving problems, offering:

- Honeywell's OneWireless network that can safely manage all wireless-enabled devices, providing one secure network to manage.
- Expertise to design and implement a simple wireless system S based on knowledge learned from over 500 site implementations.
- IntelaTrac PKS - An integrated software and hardware solution for wireless field data collection and intelligent asset management to automate operator rounds.
- Mobile Station – View Experion Station graphics on a wireless tablet to extend access to critical process information, historical data, graphics and other key functions to the field.

Proven Results

Application: Field data collection in an olefins plant

This olefins plant needed to ensure accurate field collection and data analysis from a variety of sources. The solution needed to integrate with their existing control system and asset management solutions.

Solution: IntelaTrac PKS captures, tracks and integrates field data with data from other asset management sources.

- Improved data accuracy by replacing paper reading sheets with electronic spreadsheets across five plants
- Improved process condition monitoring using non-DCS instrumented data
- Proactive decision making with integrated and time-critical field data

“We’ve been able to outfit our field personnel with the capabilities of an advanced mobile system that enables them to perform their jobs onsite with accurate data, saving both time and money.” —Gerald Bru, Lyondell