Wireless Field Interface
Global Experience. Locally Applied.

The Simplest Route to Wireless

Honeywell Enraf's Wireless Field Interface (WFI) is the easiest, smartest and most adaptable solution for wireless tank gauging. Letting you connect a wired servo or radar gauge to the ISA100 network, it brings wireless to your existing equipment and infrastructure, quickly and efficiently. Saving you money, increasing safety, and keeping you compliant to existing and new legislations, it's the fastest, simplest way to go wireless for any terminal. Global Experience. Locally Applied.

Advantages Over Wired Infrastructure are Field Proven:

- Faster—no need to lay wiring or secure clean ground certificates that delay projects

- Cost effective, with typical savings of 40-50% over wired tank gauges in terms of materials and labour, and annual productivity gains of 10% or more through reduced inventory uncertainty, storage capacity optimization and improved workforce productivity

- Compliant, enabling terminals to meet the API 2350 standard and Buncefield recommendations

- Resilient, with integrated redundancy through the wireless mesh network

- Scalable, letting you add devices quickly and efficiently.

A Challenging, Changing Environment

Wireless technology helps terminals around the world address safety concerns, regulatory demands and competitive pressures. Eliminating manual readings, introducing gauges where wires can't reach, and replacing deteriorating infrastructure, it's a safer, more efficient, more reliable solution.
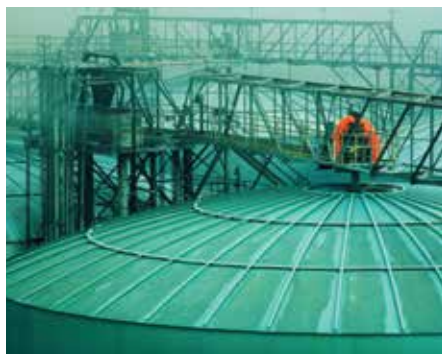
Bringing Wireless to More Applications

The Wireless Field Interface connects to any gauge to enable it to join the wireless network. It's the ideal solution for a wide range of applications:

- Extending wireless to servo gauge measurements
- Introducing real-time readings to meet tighter regulatory requirements
- Converting small terminals to wireless with limited investment
- Replacing deteriorating wired networks
- Adding gauges to terminal extensions and remote locations.

WFI gives you the freedom to go wireless in a way that suits your operation.

Building on the Benefits

The WFI extends the benefits of wireless to existing equipment with a smart, simple solution.

Any Gauge, Anywhere

With WFI, wireless is available for all Honeywell Enraf servo and radar gauges as well as any third-party equipment supporting GPU/BPM. Connecting to Honeywell's ISA100 infrastructure in seconds, it seamlessly integrates into the OneWireless™ mesh network.

Using the OneWireless mesh network, a WFI device can be added wherever it is within range of another ISA100 node such as WFI FlexLine Wireless Radar Gauge or wireless infrastructure (FDAP/ Cisco).

Cut, Connect, and Communicate

Designed for total ease of use, WFI adds gauges to the network in just a few simple steps:

- Mount the WFI on top of a tank within range of the wireless network
- Activate over-the-air provisioning from Honeywell's Wireless Device Manager
- Turn the WFI on, establishing the connection
- Connect the BPM cable to the WFI.

Communication is automatically established and all data is available to the supervisory network.

More Efficient to Maintenance

With over-the-air security key provisioning and software upgrades and full configuration and commissioning capabilities, there is less need to climb tanks, promoting safer, more efficient set up and support. Upgrades for all Honeywell Enraf equipment using its Flexconn architecture are also done quicker online than with wired infrastructure, at less than 15 minutes per board.

New WFI devices and gauges can be added to the network simply at any time, with limited configuration changes or tooling required.

Protecting your Investments

You can migrate existing wired installations to wireless, integrating both installed gauging equipment and supervisory level equipment, such as CIUs, Entis systems and the DCS. Native integration into Experion® (R410 or later) via integrated function blocks also eliminates the need for data mapping and non-value added engineering, as well as simplifying HMI display creation.

A wide range of interfaces lets you connect to any third-party system via HART, Modbus or OPC in Wireless Device Manager, making WFI the most efficient way to add wireless to existing terminals.

Safe and Secure

No SD or infrared ports are needed for security key provisioning or upgrades, and the WFI supports the OneWireless built-in security for safe, secure additions to the network.

WFI support for meshing keeps the network resilient, with the device automatically rerouting to any available node in case of maintenance or failures of other devices in the network.

$15,000 or more:

No cable laying, clean ground requirements and greatly reduced engineering cost.

$10,000 or more:

No need to a replace CIUs or third-party gauging equipment.

$8,000 or more:

No need to replace existing wired gauges.

Honeywell Enraf's Wireless Terminal Offer

Mix and Match: Servo and radar gauging on the same wireless network to suit all possible tank applications.

Further, Faster: Extend the wireless network to anywhere in range of an existing WFI, hub or FlexLine Radar.

Fully Compliant: Satisfy API standards and Buncefield recommendations with real-time, accurate measurements.

Boost Safety and Productivity: Eliminate tank climbs with over-the-air provisioning, updates and configuration options.

No Need to Rip and Replace: Maintain existing gauges and supervisory equipment.

A Full Terminal Solution

The Wireless Field Interface is part of Honeywell's OneWireless Terminal Solution, a portfolio of wireless-enabled products, services and productivity tools tailored for terminal operations.

Compliant with the field-proven ISA100 protocol, OneWireless solutions deliver a significant increase in productivity and ensures compliance with health, safety and environmental (HSE) at significantly lower cost than wired technology.

For More Information

To learn more about Honeywell Enraf's solutions, visit www.honeywellenraf.com or contact your Honeywell Enraf account manager.

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Honeywell Enraf

Your Terminal Operations Partner