

The Wireless IEC 62591 RTU Interface

Enhanced Solutions for Upstream and Midstream Applications



First Truly Integrated Remote Terminal Unit and Flow Computer IEC 62591 Wireless Solution

Optimized Production with Better Field Insight

The IEC 62591 Wireless Interface, combined with Emerson's Intelligent Wellhead and transmission solutions, will reduce installation challenges customers face where the environmental demands on power consumption, temperature range, physical size, and mounting footprints are all issues the customers have to consider. Emerson's first truly integrated IEC 62591 Wireless Interface transforms the way operations are managed with industry leading ROC800, FloBoss™, and ControlWave™ product families to deliver:

- Lower Total Installation Cost
- Simpler and More Flexible Project Deployment
- Improved Safety
- Increased Reliability
- Enhanced Operating Performance

Lower Total Installation Cost

The Wireless IEC 62591 Interface speeds seamless integration and installation. With the interface installed, the RTU auto-detects the *WirelessHART*® devices as they are added to the network. There is no site survey required, making it easy and fast to set up the wireless field instrumentation, saving time and money. Additionally the integrated interfaces have been optimized for low power environment, minimizing additional power infrastructure investments.

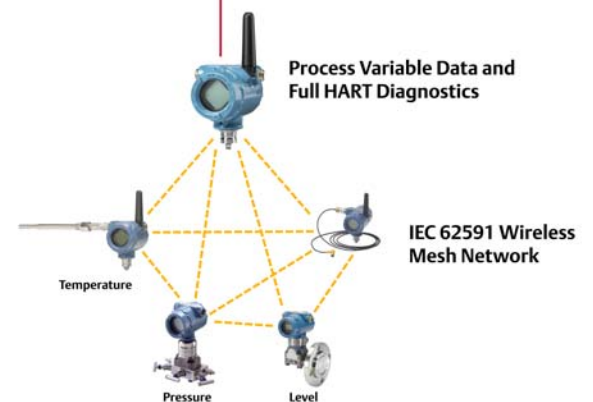
Simpler and More Flexible Project Deployment

The new interface allows deployment of Smart Field Devices to be simple and efficient by producing the first integrated solutions that don't require gateway mapping, which reduces startup time, eliminates the high cost of trenching, laying conduit, and pulling cables. The wireless field devices automatically find their way around obstacles and are auto-recognized to speed up installation and create greater flexibility.

The IEC 62591 Wireless Interfaces have I/O communication modules for the ROC800, FloBoss107, ControlWave Micro, and a Smart Wireless Field Link to provide a weather-proof, explosion-proof wireless interface for outdoor mast mounting. This installation allows physical and environmental mounting flexibility so users are not limited to a specific location during device setup.

Improved Safety

The limitless reach of Emerson's Smart Wireless technology improves personnel safety by creating enhanced visibility and process knowledge of your field eliminating unnecessary trips and minimizing time spent at remote sites. Smart Wireless Field Devices can be safely installed in hazardous locations.





Increased Reliability

The Smart Wireless mesh network enables wireless field devices to automatically find alternate communications paths, avoiding obstacles so users have flexibility during setup. This IEC 62591 mesh communications approach enables greater than 99% communications reliability. The networks implement Encryption, Authentication, Verification, Anti-Jamming and Key Management methods to ensure that data transmissions are secure.

Enhanced Operating Performance

Monitor more and execute better with a rich set of field tools to provide easy access to the Remote Terminal Unit (RTU), flow computer and Smart Wireless Field Devices for calibration, commissioning, and diagnostics to make operations more efficient by providing accurate measurement, precise monitoring, and preventing unplanned shutdowns.

The ROC800, FloBoss 107, and ControlWave Micro take full advantage of the digital accuracy and device data reliability by digitally retrieving data from the field devices to deliver improved accurate measurements. The user will improve operational performance by delivering higher data quality to the personnel making operational decisions.



Production Applications

- Production Monitoring
- Wellpad Control
- Artificial Lift
- Tank Management
- Metering Skids
- Wellhead Measurement

Transmission Applications

- Station Control
- Metering Stations
- Pressure Control
- Leak Detection
- Compressor Stations
- Corrosion Monitoring



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Global Headquarters

Emerson Process Management
Remote Automation Solutions
6005 Rogerdale Road
Houston, TX, USA 77072
T +1 281 879 2699
F +1 281 988 4445

www.EmersonProcess.com/Remote



Europe

Emerson Process Management
Remote Automation Solutions
Emerson House
Kirkhill Drive, Kirkhill Industrial Estate
Aberdeen, UK AB21 0EU
T +44 1224 215700
F +44 1224 215799



North America and Latin America

Emerson Process Management
Remote Automation Solutions
6005 Rogerdale Road
Houston, TX, USA 77072
T +1 281 879 2699
F +1 281 988 4445



Middle East and Africa

Emerson Process Management
Remote Automation Solutions
Emerson FZE
PO Box 17033
Jebel Ali Free Zone - South 2
Dubai, UAE
T +971 4 8118100
F +1 281 988 4445



Asia Pacific

Emerson Process Management
Remote Automation Solutions
1 Pandan Crescent
Singapore 128461
T +65 6777 8211
F +65 6777 0947

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