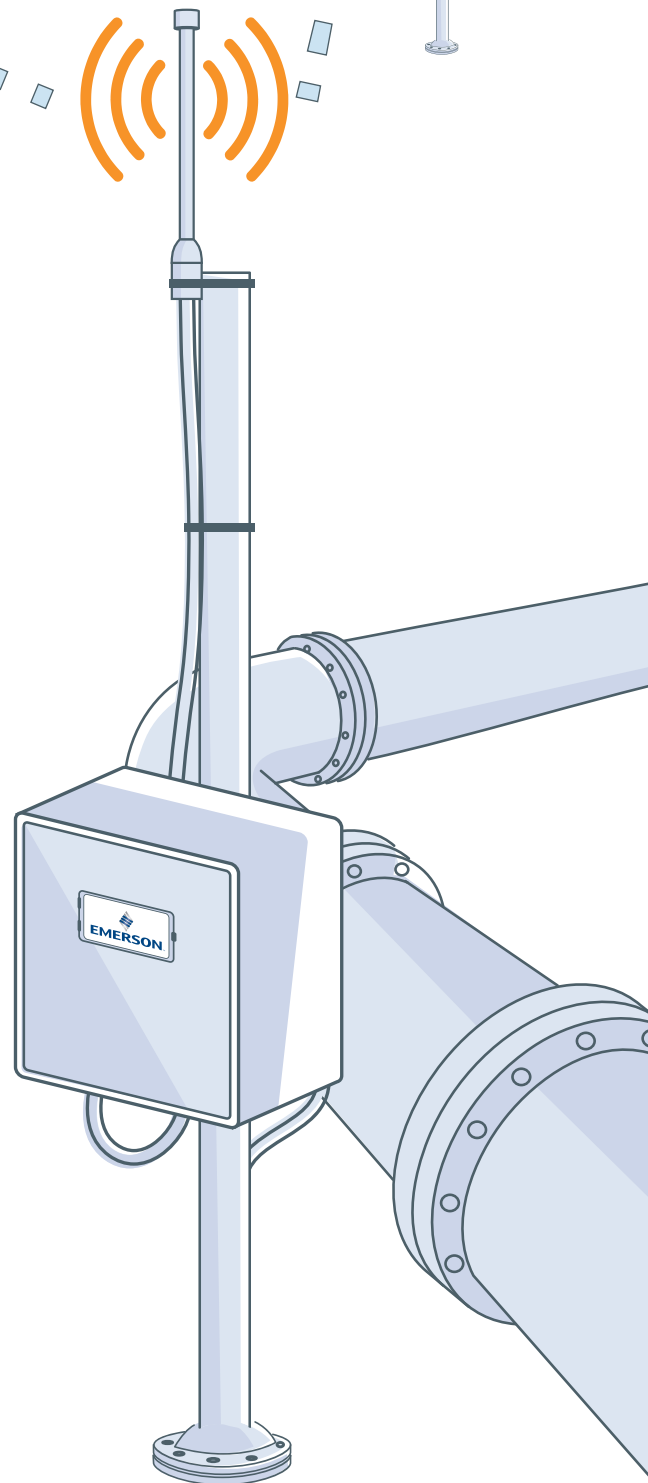


Distributed RTU™ Network

Wireless Distributed Architecture
for RTUs and Flow Computers



Remote Automation Solutions


EMERSON™
Process Management

Leverage Distributed Control Architecture for Improved Performance on New and Existing Wellpads





Distributed RTU Network

The Distributed RTU Network is a distributed control solution that allows seamless wireless integration of multiple field controllers. It integrates Emerson's FloBoss™ 107 and ROC800-Series with radio technology that provides transparent data connectivity to enable secure shared, distributed control across a wide geographical area.

The Distributed RTU Network allows users to:

- Reach first production faster
- Optimize facility development cost
- Improve operations efficiency
- Maximize lifetime production and yield



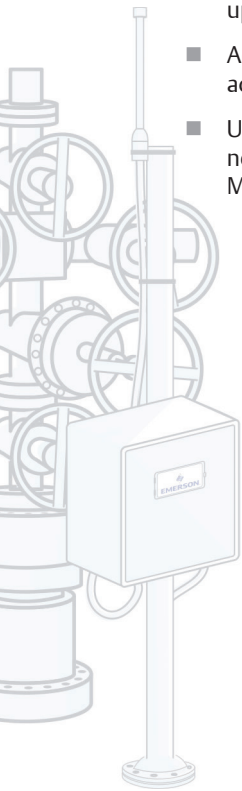
Distributed RTU Network Bundle for FloBoss 107 and ROC800-Series (antenna not included)

Reach First Production Faster

The Distributed RTU Network provides a new level of simplicity and ease to reduce project complexity. This allows users to get wellpad automation up and running faster than ever before, and to reduce the likelihood of project changes having an impact on project schedule. Less time is spent setting up the RTUs and more time can be devoted to getting the rest of the wellpad online.

The Distributed RTU Network helps users to:

- Eliminate wiring and trenching requirements across the wellpad, reducing the time and people required to get up and running
- Accommodates last-minute project changes by adding additional field controllers as needed
- Use simple configuration tools because all RTUs in the network are “browsable,” eliminating the need for Modbus mapping across controllers



Optimize Facility Development Costs

The Distributed RTU Network can help achieve the lowest total installed costs while delivering industry leading performance, based on several key benefits:

- Standardized wireless architecture that can be used on a single wellpad or across multiple sites, reducing wiring, trenching, and installation costs
- Reduced engineering costs through simple, efficient tools and a templating process to enhance repeatability
- Simplified deployment to reduce the time in the field for installation, configuration, and commissioning

Enhance Security

The Distributed RTU Network provides Security to wireless transmission by:

- Operating on a Frequency Hopping Spread Spectrum 2.4 GHz Network
- Communicating through ROC Protocol
- Offering an optional 256 bit AES Encryption



FloBoss 107 and ROC800-Series Network Radio Module

The Network Radio Module is an integral part of the Distributed RTU Network that allows the FloBoss107 and the ROC800 Series to communicate wirelessly.

The Network Radio Module broadcasts and receives information from other RTUs and flow computers in a peer-to-peer network.

The information that can be transferred includes any data in the database, including I/O, soft points, or other parameters.

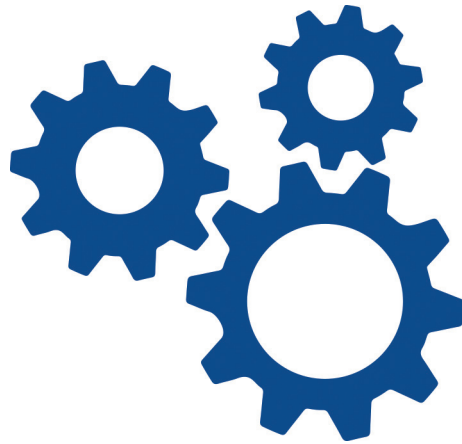


Improve Operations Efficiency

The Distributed RTU Network's new innovative architecture allows operational efficiency improvements by enhancing process visibility, simplifying site scale up, increasing responsiveness to process changes, and reducing unnecessary trips to the field.

The Distributed RTU Network allows users to:

- Increase reliability via local intelligence with the ability to make local logic decisions at the point of use
- Have easy, cost-effective integration of additional measurement points for increased site visibility, including remote integration of Wired and WirelessHART devices for advanced instrument diagnostics
- Add wells, equipment, or functionality to a site simply through the scalable nature of the Distributed RTU Network; add a new node and it automatically integrates into the existing site
- Embed control close to process operations while enabling rapid response to process changes in the most robust architecture for responding to process upset conditions



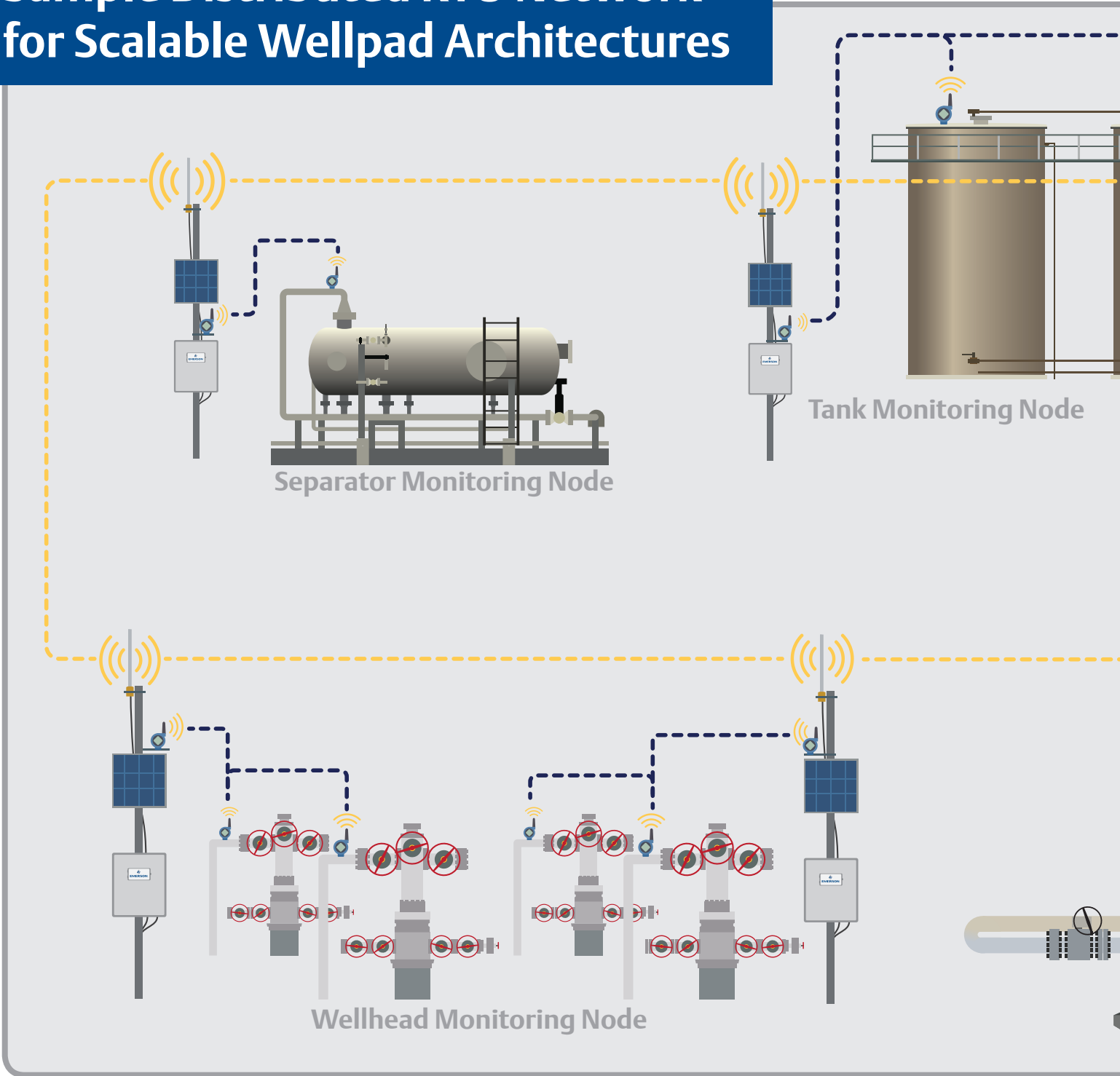
Maximize Lifetime Production and Yield

The Distributed RTU Network provides the means of increasing production and yield from an existing asset.

The Distributed RTU Network provides:

- An easy, cost-effective integration of additional measurement points for increased site visibility and ultimately, better control
- Local control to ensure the fastest response time for process optimization
- Reduction of disruptions to production by expanding without downtime to existing controllers

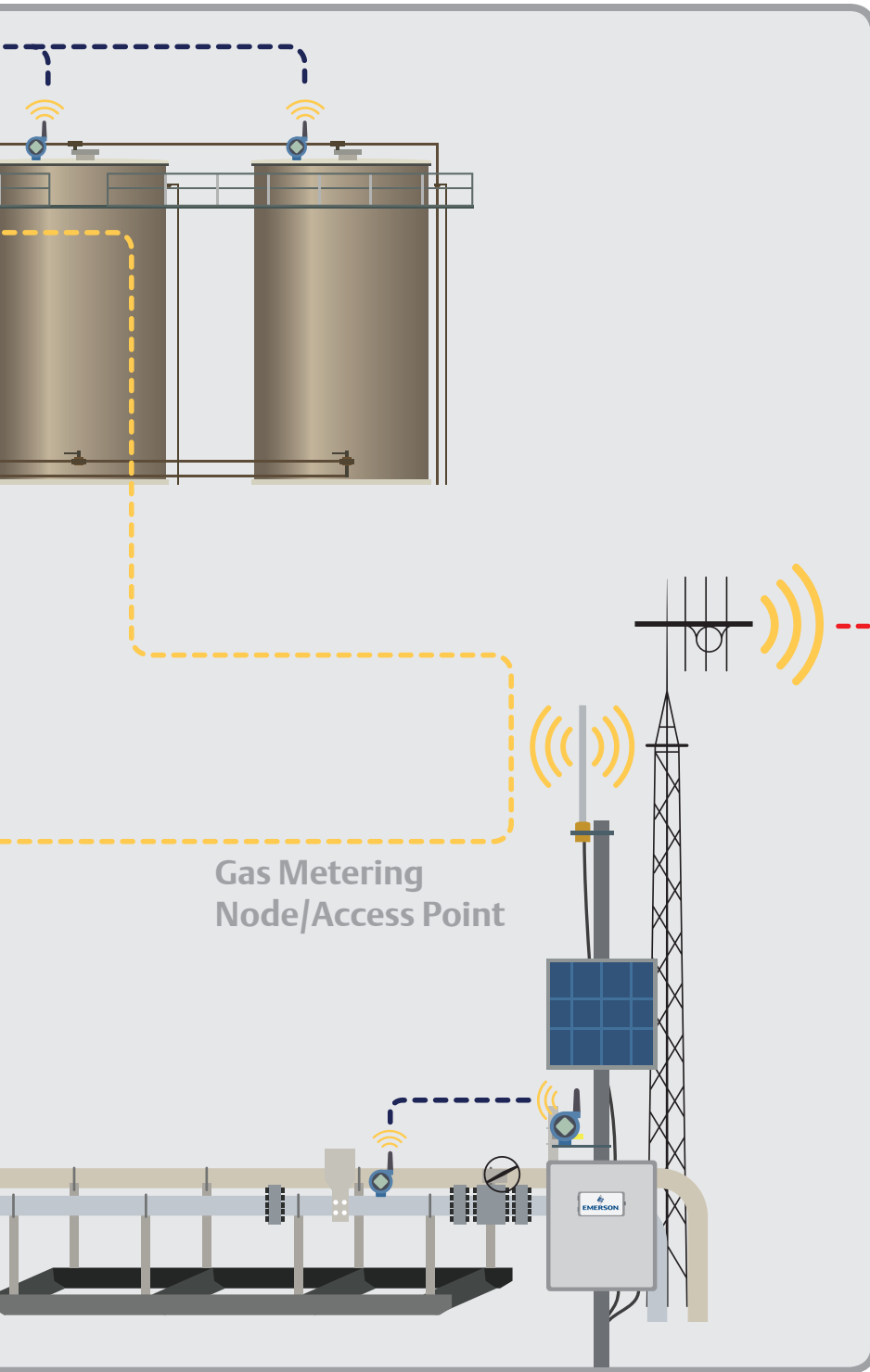
Sample Distributed RTU Network for Scalable Wellpad Architectures



— — —
Distributed RTU Network

— — —
WirelessHART Network

— — —
Back Haul



Gas Metering Node/Access Point

Distributed RTU Network Specs

- 2.4 GHz frequency hopping spread spectrum technology
- Line-of-sight range up to 10 miles (16 km)
- 1-second network update
- Network access point can be used with either a 12-node network or a 24-node network
- Up to 30 data variables can be sent from each node every second; 128 variables can be received by each node every second
- Easily configurable with ROCLINK™ 800
- Parallel, but integrated, with the WirelessHART™ Network

Office Transmission Point



Find us around the corner or around the world

For a complete list of locations please visit us at www.EmersonProcess.com/Remote



© 2012-2015 Remote Automation Solutions, a business unit of Emerson Process Management. All rights reserved.

Emerson Process Management Ltd, Remote Automation Solutions (UK), is a wholly owned subsidiary of Emerson Electric Co. doing business as Remote Automation Solutions, a business unit of Emerson Process Management. FloBoss, ROCLINK, ControlWave, Helicoid, and OpenEnterprise are trademarks of Remote Automation Solutions. AMS, PlantWeb, and the PlantWeb logo are marks owned by one of the companies in the Emerson Process Management business unit of Emerson Electric Co. Emerson Process Management, Emerson and the Emerson logo are trademarks and service marks of the Emerson Electric Co. All other marks are property of their respective owners.

The contents of this publication are presented for informational purposes only. While every effort has been made to ensure informational accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. Remote Automation Solutions reserves the right to modify or improve the designs or specifications of such products at any time without notice. All sales are governed by Remote Automation Solutions' terms and conditions which are available upon request. Remote Automation Solutions does not assume responsibility for the selection, use or maintenance of any product. Responsibility for proper selection, use and maintenance of any Remote Automation Solutions product remains solely with the purchaser and end-user.

Find us in social media



RemoteAutomationSolutions



Emerson_RAS



Remote Automation Solutions Community



Remote Automation Solutions



Global Headquarters 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

www.EmersonProcess.com/Remote



Europe

Emerson Process Management
Remote Automation Solutions
Unit 8, Waterfront Business Park
Dudley Road, Brierley Hill
Dudley, UK DY5 1LX
T +44 1384 487200
F +44 1384 487258



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

Remote Automation Solutions

