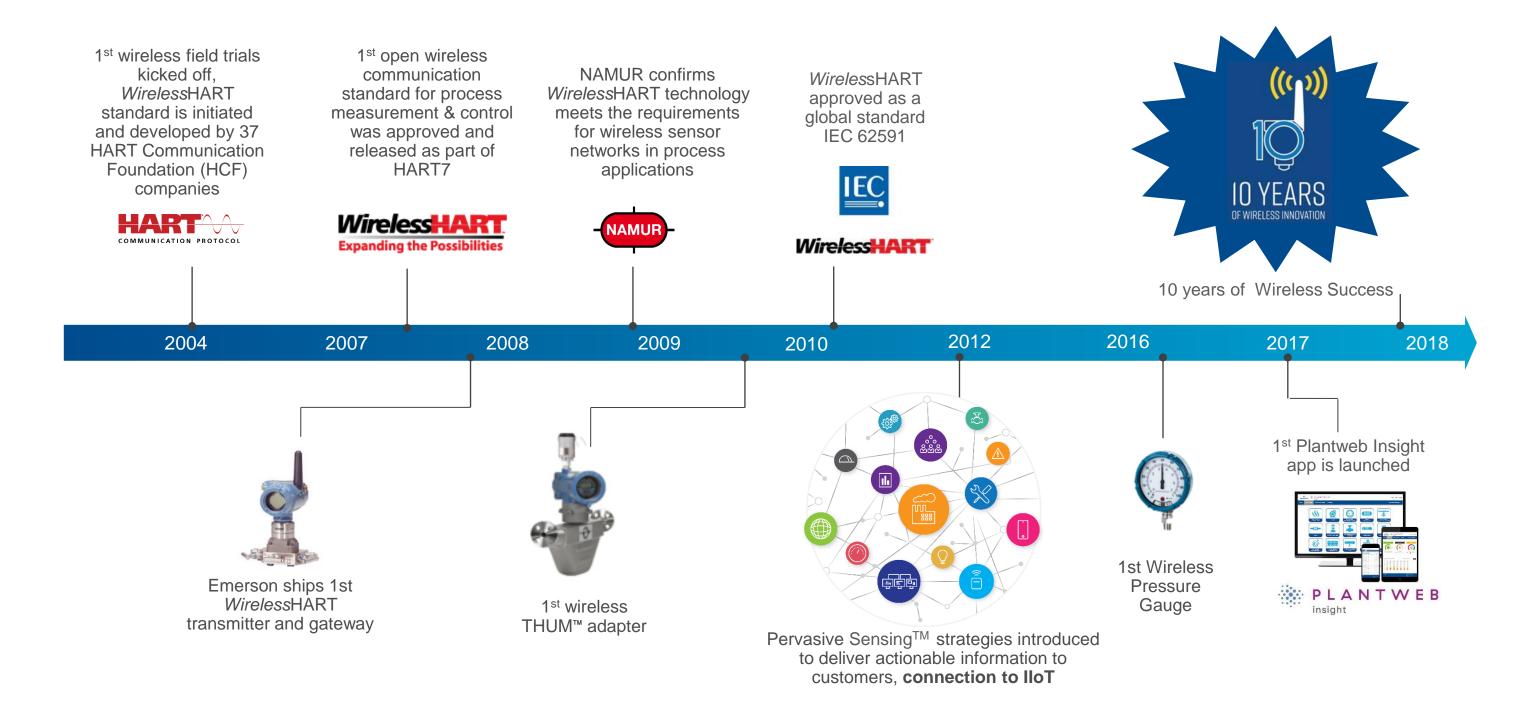


Wireless with WirelessHART



Emerson's Wireless Evolution



Hundreds-of-Thousands of Wireless Field Devices Installed Worldwide































































































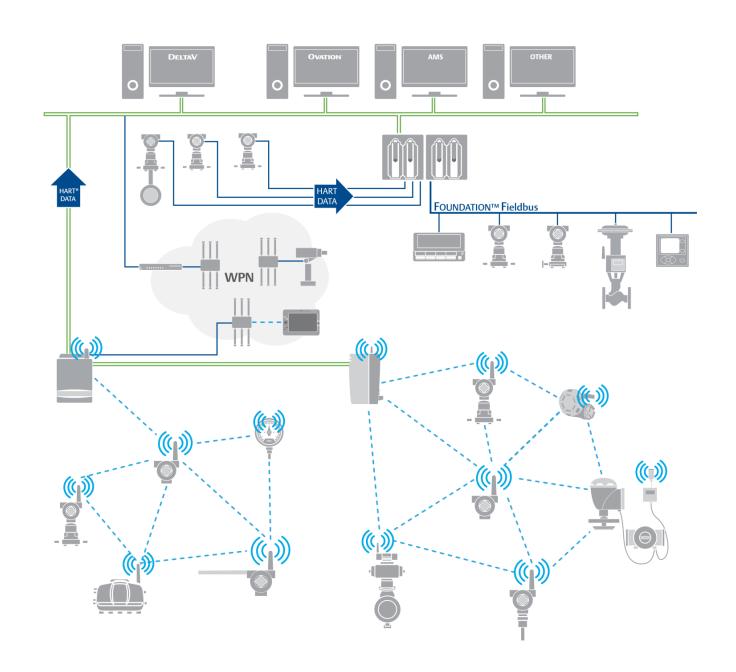






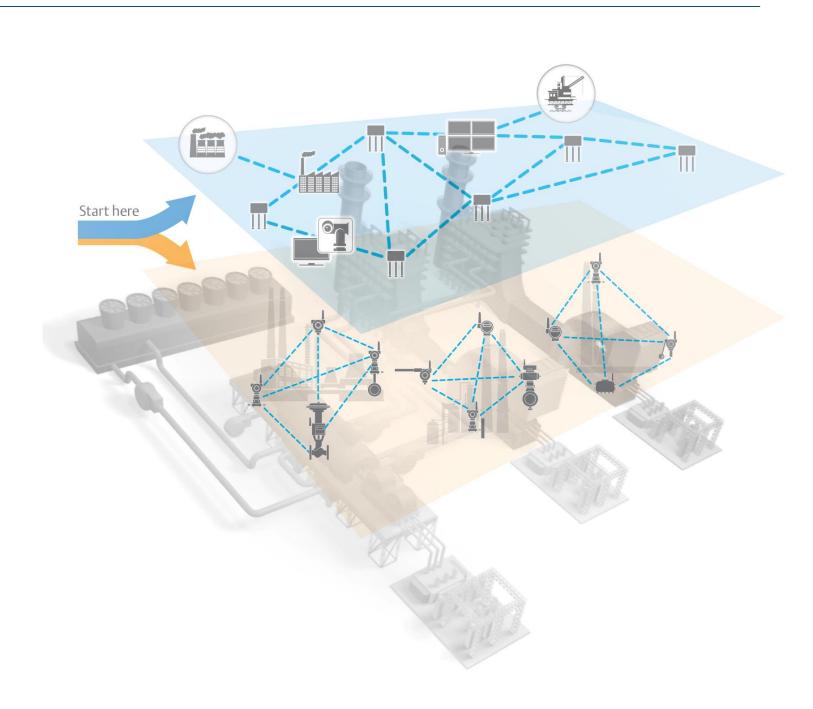
See Your Plant in a Whole New Way

- Wireless field network solutions help you touch more of your plant with predictive intelligence
 - Eliminate "blind spots" in your plant
 - Gives you visibility to detect problems before they occur
 - Plant-wide sensing increases your monitoring reach and provides real-time data



Easily Start and Scale Your Network

- Lower installation costs
- Low maintenance, non-intrusive and self-powered
- Elimination of site surveys
- Scalable



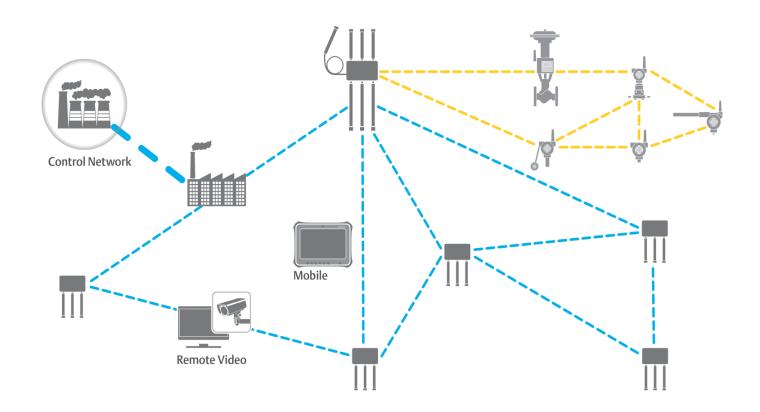
Secure Your Future with Wireless

- Key components all work together consistently and seamlessly
 - Open standards
 - Mesh technology is self-healing and self-organizing
 - 99% data reliability
 - Layered security keeps your network safe
 - Third party security verification



Improve Productivity and Safety – for Your People and Your Plant

- Enable greater workforce productivity and safety regardless of skill or experience
 - Less training needed
 - Constant connectivity
 - Avoid sending personnel into the field more often than necessary



Putting Wireless to Work for You

Wireless Plant Applications

- Field Data Backhaul
- Mobile Workforce
- Control Network Bridge

Wireless Field Networks

- Difficult Process Monitoring
- Rotating Equipment
- Environmental
- Safety System Status
- Operator Safety
- On/Off Valve Position
- Process Start-Up





Network Infrastructure Key Components

Key components all work together to deliver a secure and consistent wireless infrastructure scalable to fit any need from a single application through plant-wide implementation



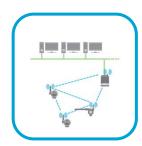
Mesh Access Points



Wired and Wireless Devices



SmartPower Solutions



Seamless Integration via LAN to all Existing Host Systems



Self-Organizing, Adaptive Mesh Routing



Wireless Mobile Voice & Video



Mobile Workforce



Wireless Safety Mustering



Wireless Personnel & Asset Tracking



Wireless Remote Video Monitoring

Wireless Product Portfolio



Pressure Transmitters and Gauges



Discrete Transmitter



Totalizing Transmitter



Acoustic Transmitter



Temperature Transmitters



Vibration Transmitter

Wireless Product Portfolio







Position Monitors



Vibrating Fork Liquid Level Switch



Corrosion Monitoring Transmitters



Tank Gauging



Gas Monitor

Wireless Product Portfolio





THUM Adapter (*Explosionproof approval option available in U.S. and Canada)



Critical Asset Monitoring



AMS Wireless SNAP-ON™ Application

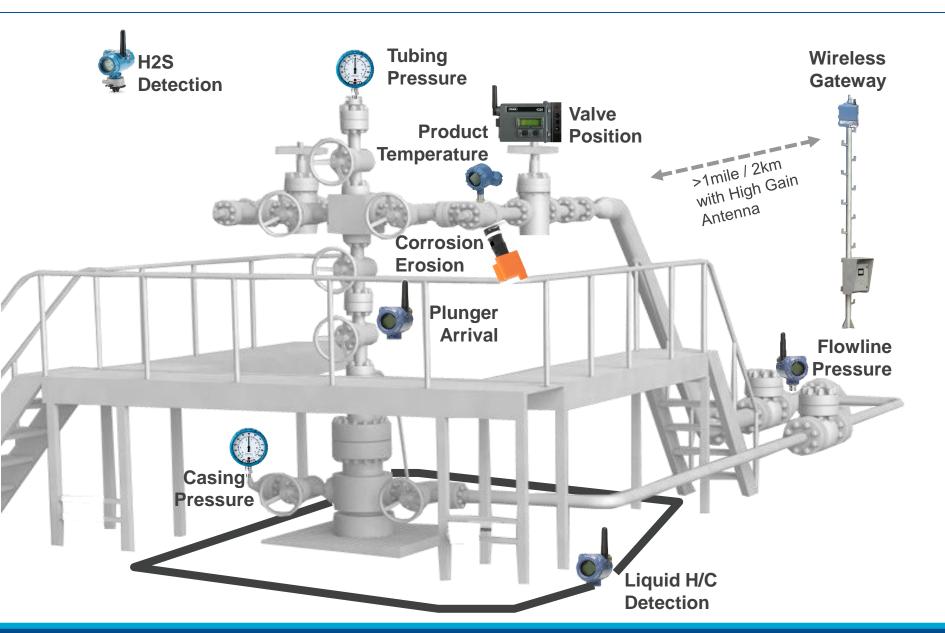


WirelessHART®
Power Meter



Emergency ReliefValve

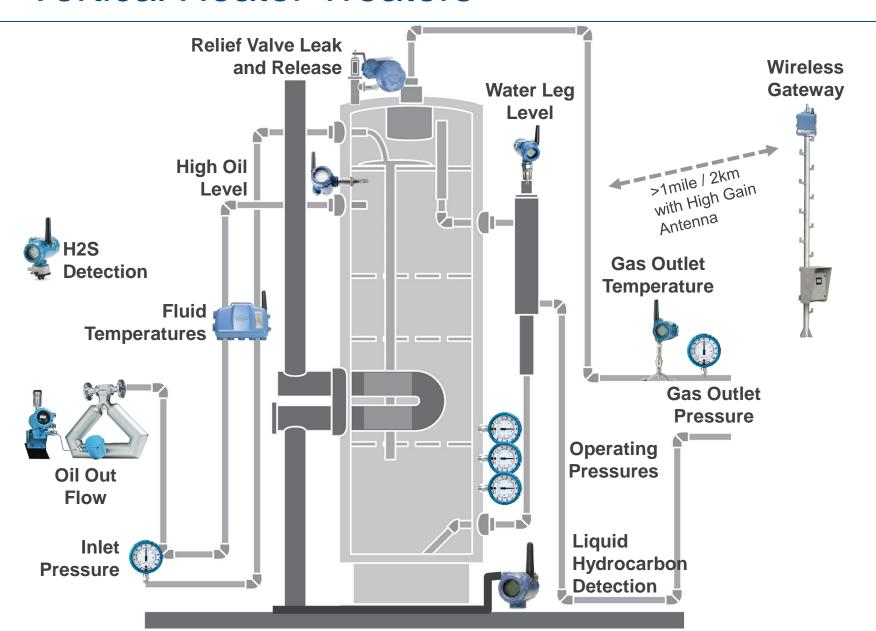
Wireless Wellhead Reduces Time, Cost and Complexity



Wireless Wellhead

- Eliminate need for junction boxes and electrical conduit
- Simplify RTU Connectivity by eliminating physical connections to sensors
- Increase remote monitoring to reduce operator exposure to the field
- Respond faster to fugitive emission or leakage events
- Monitor erosion and corrosion to maximize effective life and avoid containment loss

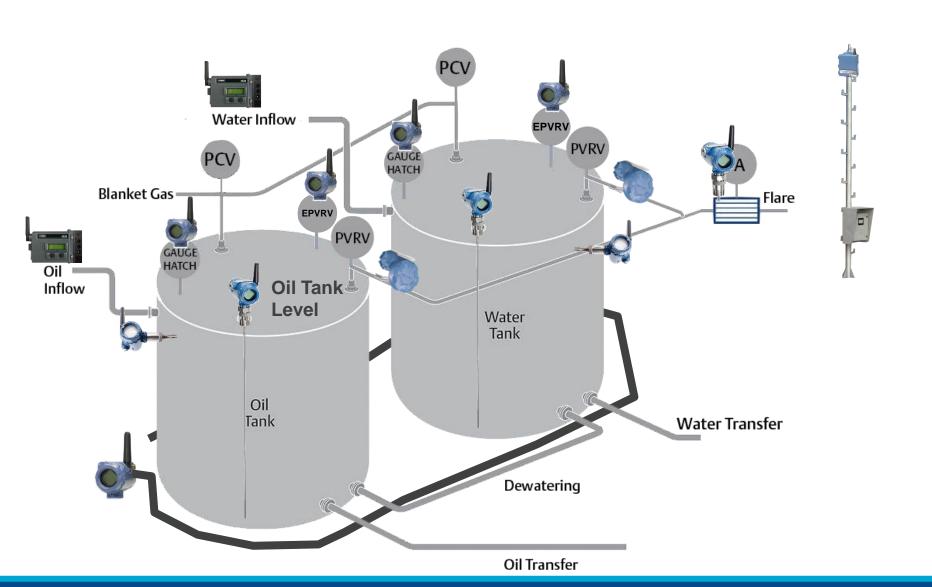
Vertical Heater Treaters



Wireless Heat-Treater

- Reduce need for junction boxes and electrical conduit
- Simplify PLC Connectivity by reducing physical connections to sensors
- Increase remote monitoring to reduce operator exposure to the field
- Respond faster to fugitive emission or leakage events
- Access stranded diagnostics on smart devices

Produced Liquids



Wireless Produced Liquids

- Reduce need for junction boxes and electrical conduit
- Simplify PLC Connectivity by reducing physical connections to sensors
- Increase remote monitoring to reduce operator exposure to the field
- Respond faster to fugitive emission or leakage events
- Access stranded diagnostics on smart devices

Lifecycle Services

Service technicians are factory-trained and certified on Emerson products. Our portfolio supports simple repairs to complex projects.

- Wireless Pervasive
 Field Network Services
- Wireless Start Up and Commissioning Services
- Educational Services



Plantweb™ Digital Ecosystem with Plantweb Insight



Today's Process Environment is Creating Opportunities to Improve Operational Performance











Stricter Safety and Environmental Regulations



Acceptance and Adoption of Wireless Technology

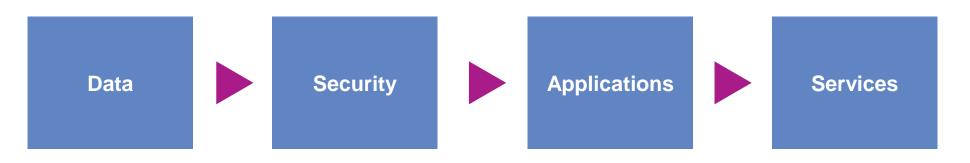


Shift Toward Predictive Maintenance

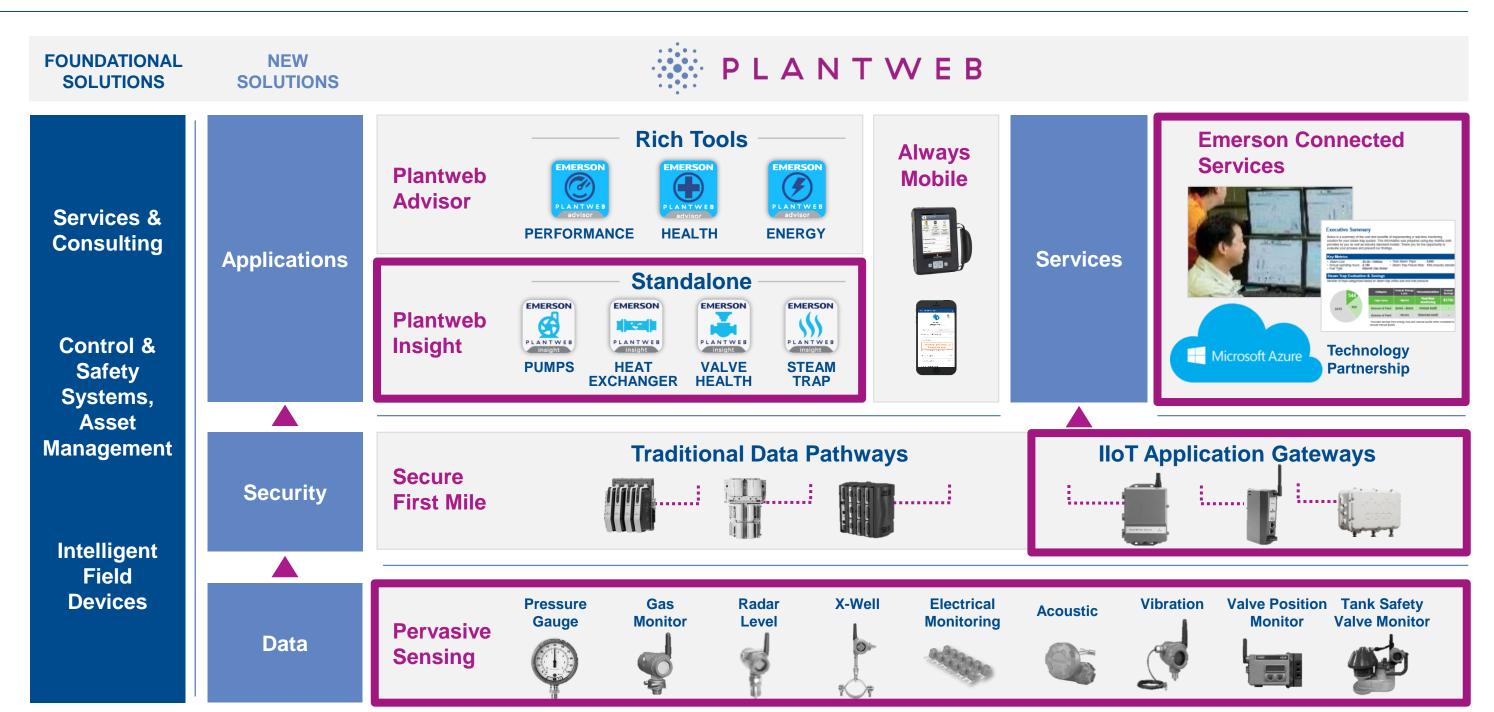
Emerson Introduces the Plantweb Digital Ecosystem for the Fourth Industrial Revolution



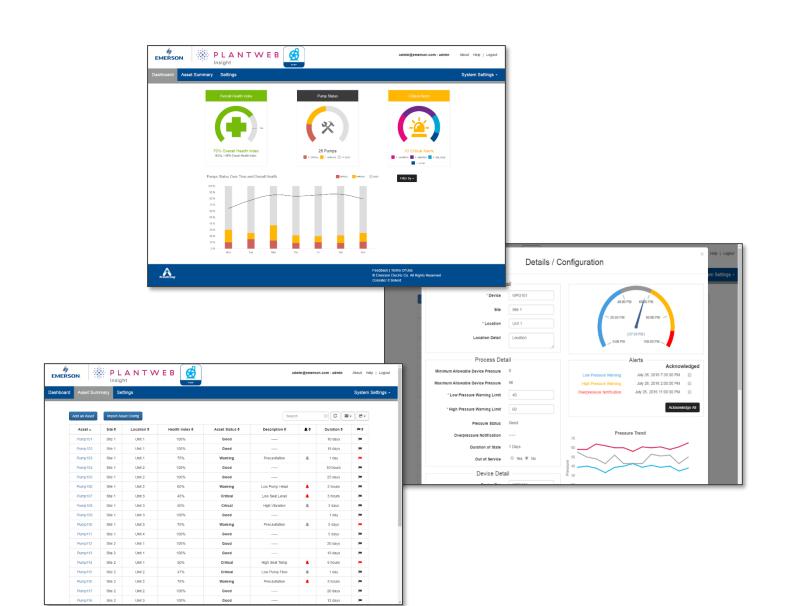
The digital ecosystem that securely ties data, applications and organizations together across the enterprise



Plantweb™ Digital Ecosystem with New Solutions to Deliver the Industry's Most Comprehensive Industrial IoT Portfolio



Plantweb Insight is an Application Package Focusing on Monitoring the Health of Plant Assets





Relevant Time Asset Monitoring



Abnormal Situation Identification



Pre-Packaged *Analytics*



Seamless Integration



Minimal Configuration



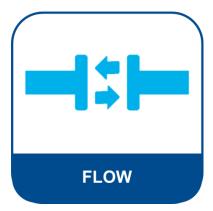
Simple, Actionable Interface

Portfolio of Applications Focus on Monitoring Essential Assets and Equipment



Identify Steam Trap Failures Instantly

Acoustic



Constant Temp Calculated Flow

Pressure



Predictive Health Monitoring

Pressure Temperature Vibration Level



Know When PRD is Open and Closed

Discrete



Know Before You Go

Wireless Pressure Gauge



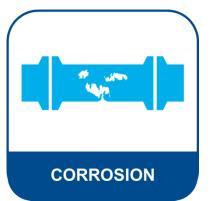
Faster Reaction to Pulled Safety Shower

Pressure Discrete



Predictive Health Monitoring

Temperature Pressure Flow



Identify Metal Loss Immediately

Non-intrusive corrosion



Predictive Health Monitoring

Temperature Pressure Vibration



Wireless Network Management

All Wireless Devices

Plantweb Insight Applications Leverage Pervasive Sensing Technologies to Fit Your Facility

Improve Reliability and Energy Efficiency

- Spot abnormal situations
- Recognize optimum maintenance times
- Reduce energy costs
- Identify and prevent failures before they occur
- Track asset health

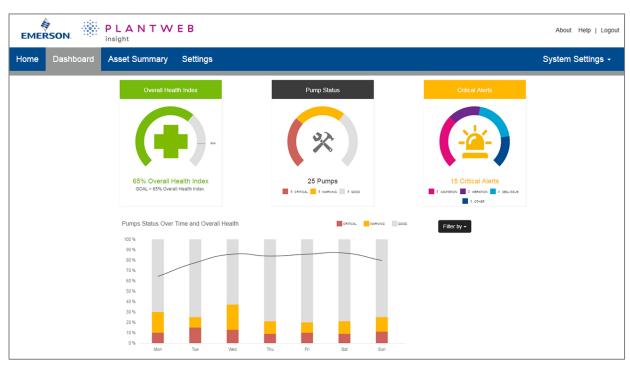


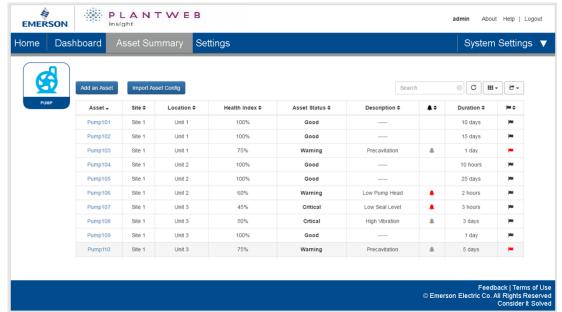
Improve Safety and Compliance

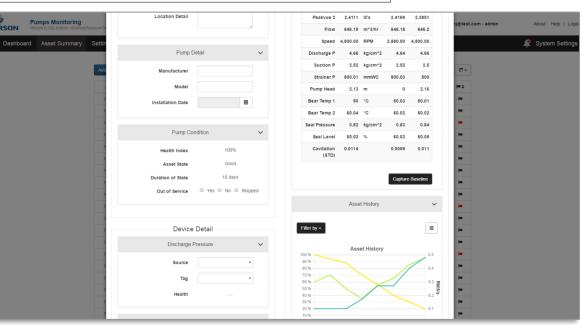
- Comply with regulations
- Identify leaking and sticking situations
- · Gain real-time visibility
- Avoid potential safety hazards
- Reduce fines and environmental impact

Pre-Built Analytics, Minimal Configuration, Intuitive Design and Consistent User Interface

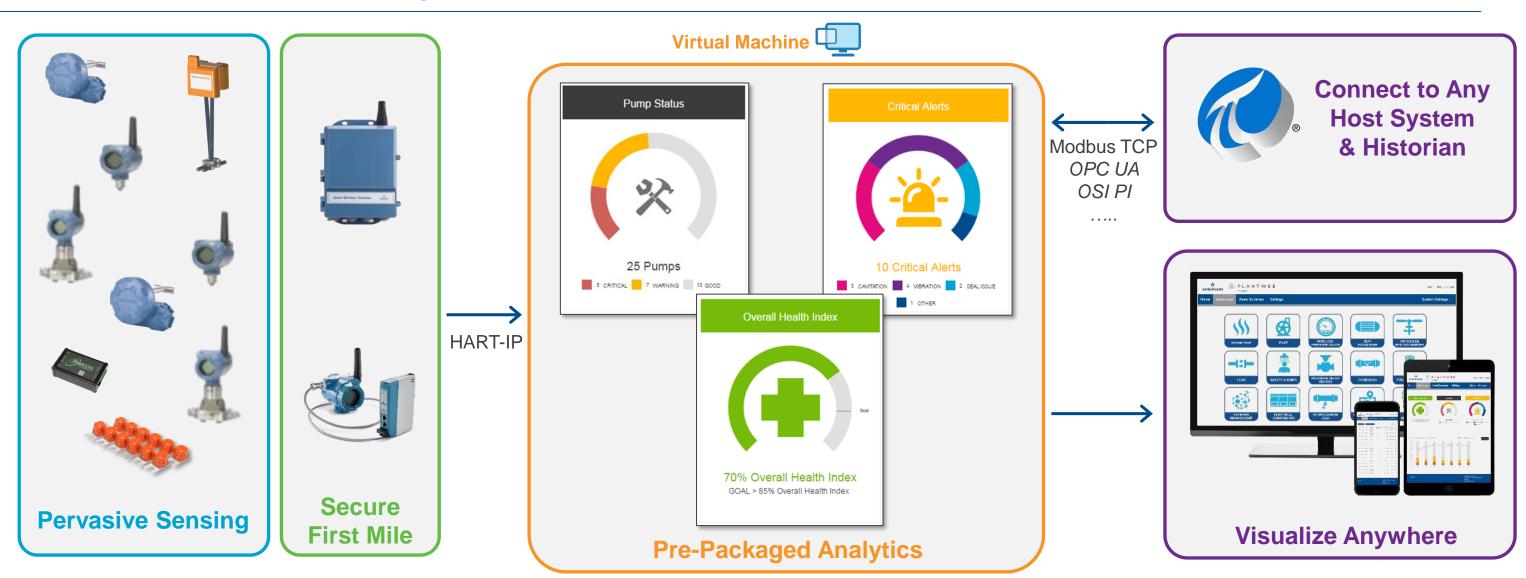








Plantweb Insight Contains Pre-Built Analytics for Seamless Integration with Minimal Configuration



Minimal Barriers To Entry Create an Easy-to-Implement Solution with Fast Results

Independent of the Plant Control System