



Corrosion Monitoring in Refineries

Comprehensive Solution for Corrosion Monitoring to Help Achieve Top Quartile Performance

Emerson combines the broadest technology portfolio with vast industry expertise to help refiners address safety and operational challenges and drive their refinery to its maximum capability.

Corrosion Monitoring in Refineries



Refineries are complex plants, with a range of processes and materials, leading to variable and invisible corrosion risk with unknown impact on the asset health. Corrosion is the root cause for many of the maintenance, integrity, and safety issues faced by refiners today.

BENEFITS OF CORROSION MONITORING



IMPROVED SAFETY

Industrial accidents are often related to uncontrolled or unexpected corrosion. By monitoring corrosion the elevated risk and damage are detected long before loss of containment improving operational safety for the plant, personnel, and the environment.



INCREASED UPTIME

A data-driven corrosion and integrity management program will ensure that asset conditions are known. As a result, maintenance and repair strategies can be optimized in timing and scope, and unplanned outages can be avoided.



OPTIMIZED CRUDE USAGE

Low-cost, low-quality crudes offer huge potential for increasing profitability but bring increased corrosion risk into the refinery. Comprehensive corrosion monitoring is needed to validate how the plant can cope with the increased risk or inform upgrade decisions.

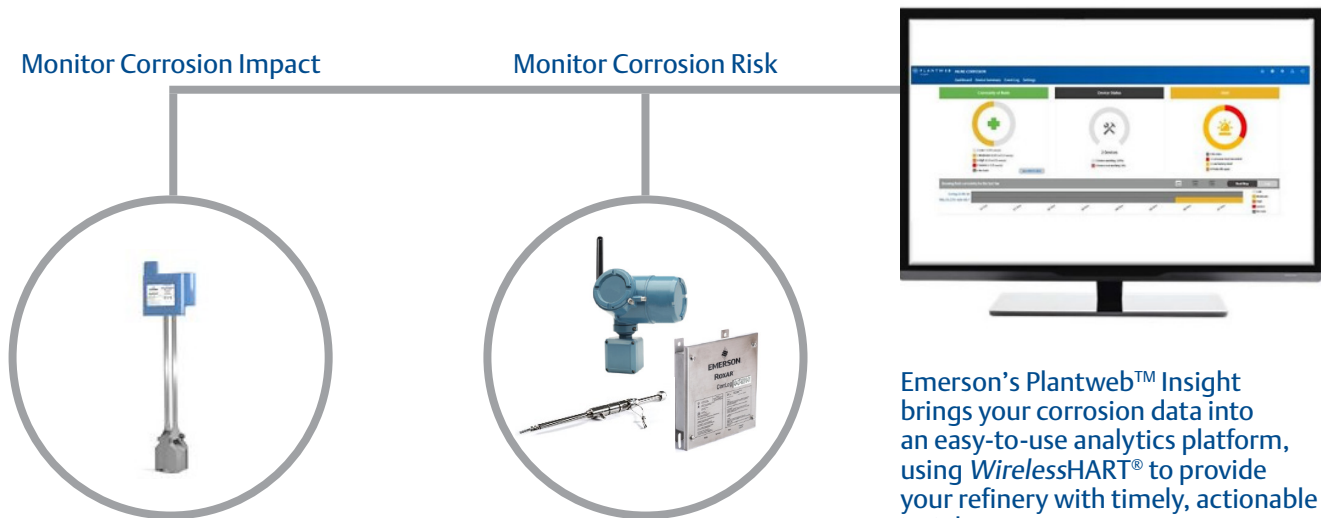


PROCESS AND CORROSION CONTROL OPTIMIZATION

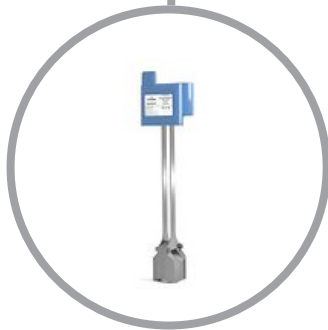
Visibility of corrosion risk and plant health enables better informed operational decision making. Processes and corrosion inhibition strategies can be optimized to balance the risk of corrosion damage against efficiency and profitability.

Real-time Monitoring of Corrosion Risk and Asset Health

Emerson helps you transform the way you drive your refinery's operational reliability, safety, and profitability. By bringing together leading corrosion sensing technologies, class-leading visualization and analytics software, Emerson provides a comprehensive monitoring solution tailored to your toughest challenges. Combined with Emerson's vast industry expertise and local service capabilities, Emerson's refining solution is unmatched.



Monitor Corrosion Impact



Rosemount™ Wireless Permasense Sensors

- Direct metal thickness measurement
- Easy to install, even on live plant: non-intrusive and cable-free

Monitor Corrosion Risk



Transmitters and Inline Corrosion Probes and Coupons

- Highest sensitivity (nano-meters) and fastest quantification / response to changed corrosion rates
- Full range of wireless, wired, and offline options



Emerson's Plantweb™ Insight brings your corrosion data into an easy-to-use analytics platform, using WirelessHART® to provide your refinery with timely, actionable insights






Emerson Automation Solutions
6021 Innovation Blvd
Shakopee, MN 55379 USA
+1 800 999 9307 or +1 952 906 8888
+1 952 949 7001
RFQ.RMD-RCC@Emerson.com

Emerson Automation Solutions
Neuhofstrasse 19a P.O. Box 1046,
CH 6340 Baar,
Switzerland
+41 (0) 41 768 6111
+41 (0) 41 768 6300
RFQ.RMD-RCC@Emerson.com

Emerson Automation Solutions
1 Pandan Crescent
Singapore 128461
+65 6777 8211
+65 6777 0947
Enquiries@AP.Emerson.com

Emerson Automation Solutions
Emerson FZE P.O. Box 17033
Jebel Ali Free Zone - South 2
Dubai, United Arab Emirates
+971 4 811 8100
+971 4 886 5456
RFQ.RMTMEA@Emerson.com

Emerson Automation Solutions
1300 Concord Terrace, Suite 400
Sunrise, FL 33323, USA
+1 954 846 5030
+1 954 846 5121
RFQ.RMD-RCC@Emerson.com

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00807-0200-4541



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