CHALLENGE
As an oil and gas producer, the need to drive revenue by producing as much as possible from your existing assets, by maximizing production rates and minimizing downtime, has never been greater. All the while, the assets must be operated safely to avoid serious incidents. You do not currently have an adequate picture of how the asset is coping with the ever-changing corrosion and erosion demands being placed upon it from the inside.

OUR SOLUTION
The ET Permasense Corrosion Erosion monitoring system provides real-time wall thickness and temperature measurements from online equipment and piping, enabling safer and more profitable operation of producing assets. The ET transmitter series is specifically designed for quick and easy installation in lower temperature (up to 120°C (250°F) for ET210 and 160°C (320°F) for ET310) applications. The transmitter uses EMAT technology and is capable of measuring the metal wall thickness through external protective coatings. The ET series is therefore ideally suited to upstream applications, where it is important to maintain the integrity of the external protective coating.

HOW IT WORKS
These unique and patented compact ultrasonic transmitters continuously measure wall thickness through external protective coatings, and the thickness value is sent via a WirelessHART® mesh network to the desks of those engineers who use the data to better-operate their facility or asset. The ET Permasense transmitters are affixed via integral magnets and secured using a lightweight strap directly onto equipment in a matter of minutes. These transmitters will work on any magnetic material, including carbon steels, chrome steels and duplex. The transmitters are completely non-intrusive, cable-free and are powered with power module with a service life of up to 9 years.

For more information visit www.Emerson.com/Permasense or contact your local Emerson™ Sales Representative

WHAT IF...
...you could continuously monitor the condition of your production assets, even in difficult to reach or high-risk locations?
...you could have up-to-date data to help drive production rates, inform your maintenance timing and optimize your corrosion/erosion mitigation strategies?

The ET210 Permasense transmitter is particularly valuable for upstream applications such as offshore facilities as well as arctic and sub-arctic environments.
Rosemount ET210 and ET310 Wireless Permasense Corrosion Erosion Monitoring System

Safe, quick and easy installation
Completely non-intrusive, no need to remove external coating, compact form factor, no cabling

No data retrieval costs or delays
WirelessHART data delivery into existing IT infrastructure for viewing and analysis

No maintenance
Ultra low power consumption enables power module life of up to 9 years

Best-in-class data visualization and analytics
Data exportable to any other historian

Wide-ranging applications
Onshore or offshore assets: risers, flow lines, piping, vessels, processing equipment

Install anywhere on topside or above ground metalwork where there is risk of internal corrosion or erosion including:
- Areas with known internal damage
- Areas at elevated risk of corrosion or erosion such as elbows
- Areas with limited accessibility

ET Permasense transmitters can be mixed with WT Permasense transmitters to cover high temperature locations

Consider it Solved.
Emerson Automation Solutions supports you with innovative technologies and expertise to address your toughest challenges. For more information, visit Emerson.com/Permasense

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08087-0300-4120 RevAA