

Rosemount™ 4390 Series of Corrosion and Erosion Wireless Transmitters

Maximize your process performance with continuous online corrosion and erosion monitoring

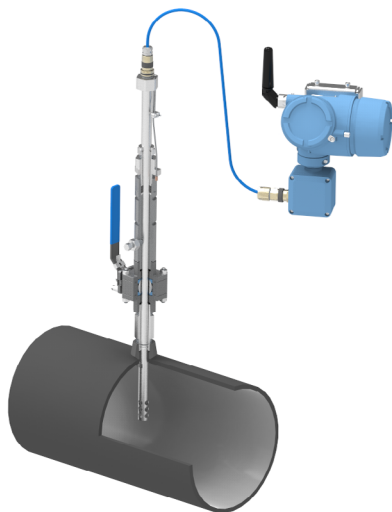


Rosemount 4390 Series of Corrosion and Erosion Wireless Transmitters provide continuous, accurate and highly sensitive real time corrosion and erosion monitoring data, enabling maximum performance through process optimization and eliminate the need of costly walk-downs. The transmitter delivers superior corrosion management data by using top of the range instruments thus providing improved data processing, flexible data management solutions and friendly user interface.

- Best-in-class inline corrosion and erosion data monitoring by providing continuous, accurate and highly sensitive monitoring data
- Increase safety at your plant by reducing exposure to personnel in hazardous areas and eliminating walk-downs to gather data
- *WirelessHART®* – seamless compatibility with existing Emerson™ devices
- Self-organizing, self-healing, adaptive mesh network – no wireless expertise is required
- Better cost control by enabling maximum performance through process optimization



Easy to Deploy and Easy to Maintain



Corrosion monitoring system

- The transmitter is compatible with Electrical Resistance Probes (ER probes), Linear Polarization Probes (LPR probes) and Multi Element Sand probes from Emerson and other major vendors
- Various data formats (calculated metal loss data, corrosion and erosion rates or probe raw data) can be selected from the HART® terminal, or from the Emerson Asset Management System (AMS)
- The corrosion wireless transmitter can be seamlessly integrated with Plantweb™ Insight Inline Corrosion Application and provides actionable data right to your desk
- High resolution (24 bit) ensuring reliable and fast corrosion and erosion monitoring
- Optimized power consumption up-to 4 times more compared to previous generation
- 15 times better sampling rate compared to previous generation
- Delivers high reliability in challenging radio environments using Direct Sequence Spread Spectrum (DSSS) technology

For more information, visit
[Emerson.com/Corrosion-Erosion](https://www.emerson.com/Corrosion-Erosion)
or contact your local Emerson Sales Representative





Rosemount 4390 Series of Corrosion and Erosion Wireless Transmitters

Product Specifications

General	For connection with intrusive corrosion and erosion probes
Connection	Connected to probe via a probe cable - maximum 65 feet (20 m)
Humidity Limits	5 - 95% relative humidity
Instrument Resolution	24 bit
Measurement Intervals	Multiple Element probes and Electrical Resistance (ER) probes can be measured as fast as 1-minute interval Linear Polarization Resistance (LPR) probes can be measured as fast as 4-minutes intervals
Communication	WirelessHART 2.4 GHz DSSS (Discrete Sequential Spread Spectrum)
ER Probe	Actual accuracy 10-100 ppm of probe element thickness, depending on probe type and environmental conditions
LPR Probe	Accuracy of 100ppm for the resistance measured on the LPR port
Sand Probe	Actual accuracy 10-100 ppm of probe element thickness, depending on probe type and environmental conditions
Operating Temperature	-40 to 158 °F (-40 to +70 °C)
Power Module	Black power module, type 701PBKKF. Replaceable, non-rechargeable. Intrinsically safe Lithium-Thionyl Chloride power module pack with PBT/PC enclosure. 7.2 V
Housing & Weight	Painted aluminum, IP 66, NEMA® 4x, 5kg
Hazardous Location Protection Type	Intrinsically Safe (Ex ia) device

*See product data sheet for full specifications.

RELATED PRODUCTS

Electrical Resistance Probes (ER)	Linear Polarization Probes (LPR)	Multi Element Sand Probes
		

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Consider It Solved.

Emerson Automation Solutions supports you with innovative technologies and expertise to address your toughest challenges.

For more information, visit [Emerson.com/Corrosion-Erosion](https://www.emerson.com/Corrosion-Erosion)

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