Identify corrosion risk before it impacts your plant using predictive corrosion management capabilities, offered as part of the APM portfolio.

Predictive corrosion management combines cloud-based software with RightraxPM installed sensors to non-intrusively monitor interior piping wall loss due to corrosion and erosion.

This powerful package allows operators in upstream, downstream, and power to monitor interior wall thickness for piping and other assets with precise schedule-based measurements at higher frequency. It also helps improve the safety of the facility and the personnel, eliminates the need to shut down processes, and to deploy the field maintenance professionals only when necessary.

With analytics and real-time trends and robust visualizations, you can make proactive and informed decisions about asset integrity—reducing the total cost of operations.

### Technical specifications

#### Probes
- Sensor type: Sol-gel spray, single element
- Measurement type: Pulse-Echo 0° transducer
- Couplant: Dry-coupled
- Probe dimensions: 24x24x16 mm/0.94x0.94x0.63 in
- Element sizes: 8x8 mm/0.31x0.31 in

#### Motes
- ATEX/IECEx certification: II 1G EX ia IIC T4 ATEX ZONE 0
- FM approvals: IS CL 1 DIV 1 GP A, B, C, DT4
- Power source: Battery
- Battery lifetime: >5 years†
- Ingress Protection: IP67
- Max. number probes †† per Mote: 64
- Max. number thermal couples (type K) per Mote: 8
- Mote dimensions † † †: 275x150x100 mm/10.83x5.91x3.94 in

### Key benefits
- Monitor interior piping wall loss due to corrosion and erosion
- Make informed decisions with the help of analytics
- Manage and mitigate corrosion-related risks to operations
- Reduce inspection-related costs
- Utilize continuous sensor data for better informed asset, maintenance, and process decisions
- Measure corrosion inhibitor program effectiveness
- Improve personnel safety

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**Weight** 3.7 kg/8.2 lb

**Communication** IEEE 802.15.4e standard (2.4 GHz) (wireless)

**Maximum distance** 15 m/49 ft. Mote – antenna

**Maximum distance** 10 m/33 ft. Mote – probe

**Maximum distance** 400 m/1,300 ft. †††† Mote – Mote

**Certification (safety)** CE, US (UL), CA (CSA)

Consult with Baker Hughes representative for country-specific certifications.

**Mote manager**

**Power source** Power over ethernet

**Max. number Motes per Mote manager** ††††† 100

**Mote manager dimensions** 275x150x100 mm/10.83x5.91x3.94 in†††

**Weight** 2.4 kg/5.3 lb

**Ingress protection** IP67

**Communication (wireless to Mote)** IEEE 802.15.4e standard (2.4 GHz)

**Communication (wired to MFA)** Ethernet (TCP/IP)

**ATEX/IECEx/FM approvals** Not applicable

**Certification (safety)** CE, US (UL), CA (CSA)

Consult with Baker Hughes representative for country-specific certifications.

**Operation**

**Operation temperature range 200ºC probes** -30°C to 200°C/ -22°F to 392°F

**Operation temperature range 400ºC probes** -30°C to 400°C/ -22°F to 752°F

**Operating temperature range Mote and Gateway** -30°C to 60°C/ -22°F to 140°F

**Pipe diameter** 50.8 – 609.6 mm/ 2 – 24 in (belts)

**Nominal wall thickness (on step block)** 3 – 50 mm/ 0.12 – 1.97 in

**Performance**

**Wall thickness repeatability** ±0.02 mm/ ±0.8 mil including temperature compensation

**Reference wall thickness accuracy** ±0.1 mm/ ±3.9 mil

**Browser capabilities**

**Web browser** Google Chrome

**Predix security** www.predix.io/resources/security

†† Based on daily measurements with 64 probes under normal conditions.

† Default application is in clock positions. Other configurations are possible.

†† † Excluding antenna

†††† Actual radio frequency range performance is subject to a number of installation variables including, but not restricted to, ambient temperature, relative humidity, presence of active interference sources, line-of-sight obstacles, and proximity of objects (trees, walls, signage, piping, and so on) that may include multipath fading. As a result, actual performance varies.

††††† Actual performance can vary depending upon network bandwidth and schedule for upload to cloud or based on deployment topology.

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For technical support regarding this product please contact:

Mail: RemoteService@bakerhughes.com

Phone: +1 866 243 2638

All country specific numbers can be found on www.bakerhughesds.com/services

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BHCS33669B (04/2020)