

The gPIMS<sup>®</sup> Sensor provides Large Area Corrosion Monitoring – with full pipe wall coverage in range; Small Area Thickness Monitoring – on 8 segments around the circumference of the pipe; and Temperature Monitoring. This sensor type can be used with the gPIMS<sup>®</sup> FCU (Field Control Unit) for automated monitoring or the gPIMS<sup>®</sup> Connection Box and Wavemaker<sup>®</sup> for scheduled monitoring.

### TECHNICAL SPECIFICATION SUMMARY *(Subject to change)*



General Characteristics	
Application area	Midstream and Un-zoned Upstream/Downstream pipe monitoring
Sensor Technology	Piezo-electric
Sensor Physical Characteristics	
Pipe Diameter Range	3" to 72" [DN 80-1800]
Axial Length	200 mm [8"]
Weight <i>(approx. for diameter range)</i>	1.4 kg to 10.4 kg [3.1 lbs to 23 lbs]
Material	Polyurethane <sup>(1)</sup>
Clearance Required	
Circumferential	Full Circumference
Axial	200 mm [8"]
Radial	25 mm [1"]
Radial, at connector	75 mm [3"]
Temperature	
Operational Temperature	-40°C to +90°C [-40°F to +194°F]
Maximum Temperature Excursion	+130°C [+266°F]
Interference with	
Cathodic protection	No
MFL, EC or UT in-line tools	No
Installation	
Coupling method	High temperature epoxy resin
Pipe temperature at time of installation	+10°C to +60°C [+50°F to +140°F]
Install over Paint and Epoxy	Yes, up to 1 mm [0.040"] thick
Install over Bare Metal	Yes
Cable Characteristics	
Maximum cable length	50 m [164 ft]
Connector to Field Control Units	Detachable (Souriau 851-series) <sup>(2)</sup>
Maximum Diameter	42.05 mm [1.66"]
Connector to Sensor	gPIMS <sup>®</sup> proprietary sealed connector <sup>(3)</sup>
Dimensions, W x H	75 mm x 55 mm [3.0" x 2.2"]
Cable Conduit	PVC covered galvanised steel <sup>(4)</sup>
Operating Temperature Range	-20°C to +105°C [-4°F to +221°F]
Diameter	18 mm [0.7"]

<sup>(1)</sup> Resistant to: UV, water, oil, external shock.

<sup>(2)</sup> Suitable for cable routing through small gaps and upgrading to autonomous collectors.

<sup>(3)</sup> 4-way connectivity with on-board cable orientation detection.

<sup>(4)</sup> Liquid tight, very high UV resistance, medium flexibility and fatigue life, resistant to oil, self-extinguishing, crush resistant