

## 9PIMS® Ex HT SENSOR

## **TECHNICAL SPECIFICATION**

The gPIMS® Ex HT Sensor is ATEX/IECEx certified for use in hazardous areas when connected to a gPIMS® Ex FCU (Field Control Unit). It enables automated large-area corrosion monitoring at elevated pipe process temperatures, up to 200°C.

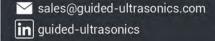
General Characteristics	
Application area	High-temperature upstream/downstream hazardous area pipe monitoring
Sensor technology	Piezo-electric
Sensor Physical Characteristics	
Pipe diameter range	2" to 48" (DN 50 to 1200)
Axial length	200 mm [8"]
Weight (approx. for diameter range)	1.4 kg to 10.4 kg [3.3 lbs to 52.8 lbs]
Material	Silicone <sup>(1)</sup>
Clearance Required	
Circumferential	Full Circumference
Axial	220 mm [9"]
Radial	40 mm [1"]
Hazardous Area Certification	
Intrinsic safety ATEX/UKEX/IECEx	
For process temperatures up to 200°C [392°F]	II 1G Ex ia IIB T4 Ga (-40°C ≤ Ta ≤ +90°C)
For process temperatures up to 179°C [354°F]	II 1G Ex ia IIB T3 Ga (-40°C ≤ Ta ≤ +130°C)
For process temperatures up to 114°C [237°F]	II 1G Ex ia IIB T3 Ga (-40°C ≤ Ta ≤ +130°C)
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 +90°C [+50°F to +194°F]
Curing Time	15 minutes @ 90°C, double time for every decrease of 10°C
Install over Paint and Epoxy	Yes, up to 0.25 mm [0.01"] thick
Install over Bare Metal	Yes

Cable Characteristics	
Fixed Cable Length	2 m [6.56 ft]
Cable Conduit	Stainless Steel
Diameter	16 mm [0.63"]
Maximum Extension Cable Length	50 m [164 ft]
Cable Conduit	PVC covered galvanised steel (2)
Operating Temperature Range	-20°C to +105°C [-4°F to +221°F]
Diameter	18 mm [0.7"]
Connector to Field Control Unit or Connection Box	Detachable (Souriau 851-series) (3)
Maximum Diameter	42.05 mm [1.66 "]

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









<sup>(2)</sup> Liquid tight, very high UV resistance, medium flexibility and fatigue life, resistant to oil, self-extinguishing, crush resistant.
(3) Suitable for cable routing through small gaps and upgrading to autonomous collectors.