

## STANDARD TRANSDUCER SPECIFICATION

PARAMETER	VALUE	UNIT
Design Temperature	55 to +380	°C
Continuous Operating Temperature	-40 to +350	°C
Delay Line Material	304 Stainless Steel	-
Delay Line Length	25	mm
Delay Line Form	Cylindrical, 10mm spot contact	-
Ruggedisation	Certified to IP66 and IP68. Stainless steel construction	-
Connector Type	00 Lemo receptacle as standard	-
Active Element Diameter	10	mm
Transducer Centre Frequency	3.25	MHz
+ compatible with both 2.25 MHz and 5 MHz flaw detectors / UT hardware		
-6 dB Bandwidth	80	%
Signal to Noise Ratio	> 20	dB
Couplant	Solid/Foil	-
Material Straps/Mounting	316 Stainless Steel	-
Standard Pipe Sizes	NPS 2-16"	Other sizes available via special request
Total Mass (Transducer, mount, straps)	1.0 - 1.4 kg	Dependent on strap size

\*\*Other variations by special request

## CERTIFICATION

Ex II 1 GD Ex ia IIC T\* Ga / Ex ia IIIC T\* Da  
CE IP 66 / 68



Want to discuss your demanding environment needs?

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ADVANCED  
TECHNOLOGIES

hotsense® | Powered by ionix  
HotSense™ Thickness Monitoring Solutions



Reduce Risk  
Increase Safety



Increase Productivity  
Reduce Downtime



Reduce Cost  
Focus Resources

HotSense™ ultrasonic sensors for in-service wall thickness monitoring  
Minimise operational risk and maximise productivity with enhanced asset intelligence. Ultrasonic transducers and system solutions ideal for thickness, corrosion and erosion monitoring for use in applications across refining, oil & gas, energy, nuclear, aerospace and process sectors.

## MEASUREMENTS MADE EASY

HotSense™ ultrasonic transducers with a range of data collection methods available through Ionix Advanced Technologies.



- Monitor wall thickness in-service across a wide **temperature range -55 to +380 °C**
- **Detect wall loss to 0.010 mm (0.001")**  
Complement inspection and improve repeatability & accuracy with fixed transducers installed directly on to assets
- **Support asset integrity and corrosion management programs** (including RBI, FFS & FEA)
- **Reduce costs** with replacement of intrusive methods and reduced scaffolding / insulation removal
- **Increased safety** with reduced exposure and man-hours at asset

**ionix**

ADVANCED TECHNOLOGIES



	MANUAL INSPECTION	HYBRID SYSTEM	AUTONOMOUS MONITORING
<b>Hardware</b>	UT Thickness Gauge	TRND	Wireless/Wired Node
<b>Ultrasonic Transducer</b>	hotsensei®	hotsensei®	hotsensei®
<b>Temperature Range</b>	-55 to +380 °C	-55 to 350 °C	-55 to 380 °C
<b>In-Service Operation</b>	✓	✓	✓
<b>Ex Certified</b>	✓ Sensors, Zone 0	✓ Sensors, Zone 0	✓ Whole System, From Zone 0
<b>Data Collection</b>	UT Inspector	Manual or Drone	Wireless/ Wired incl. WirelessHART, GSM, Modbus
<b>Storage</b>	Manual	Cloud/Local	Cloud, server, local



Contact Ionix Advanced Technologies to solve your monitoring challenges

