

HotSense™ Ultrasonic Time-Of-Flight Diffraction (TOFD) Full Inspection Kit

Be ready for any weld inspection with a complete set of HotSense™ Time-of-Flight Diffraction (TOFD) transducers for on-stream inspection of a wide range of welds, depths and vessel diameters

Keywords: TOFD, weld inspection, on-stream inspection, extreme environments, ultrasonic testing, high temperature



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ADVANCED TECHNOLOGIES



HOTSENSE™

- Built on the award winning HotSense™ ultrasonic platform powered by the proprietary Ionix HPZ piezoceramic.
- Complete set of HotSense™ TOFD probes with integrated 50, 60 and 70° wedges with flat, 8", 12" and 16" NPS AOD profiles to cover pipe diameters from 6" NPS to flat.
- Includes high-temperature couplant feed tubing, splitters and high-temperature cables.
- -55 to +350°C [-67 to +662°F] continuous use temperature range without cooling or duty cycling.

APPLICATION

- Cover scan depths up to 70 mm with a range of wedge angles and frequencies.
- Profiled wedges to maximise coupling and sensitivity on a range of assets.
- Make weld inspections on hot assets, on-stream, without the need to shutdown or isolate.
- Make effective weld root corrosion assessments rapidly at high-temperature.

SOLUTIONS

- Maximise productivity with reduced down-time and outages with on-stream inspection.
- Perform high-temperature pre-inspection to optimise shutdowns.
- Standardise data collection using commercial UT flaw detectors and scanners.
- Reduce operational costs and maximise production margins.

hotsense® | Powered by ionix



FULL INSPECTION KIT CONTENTS

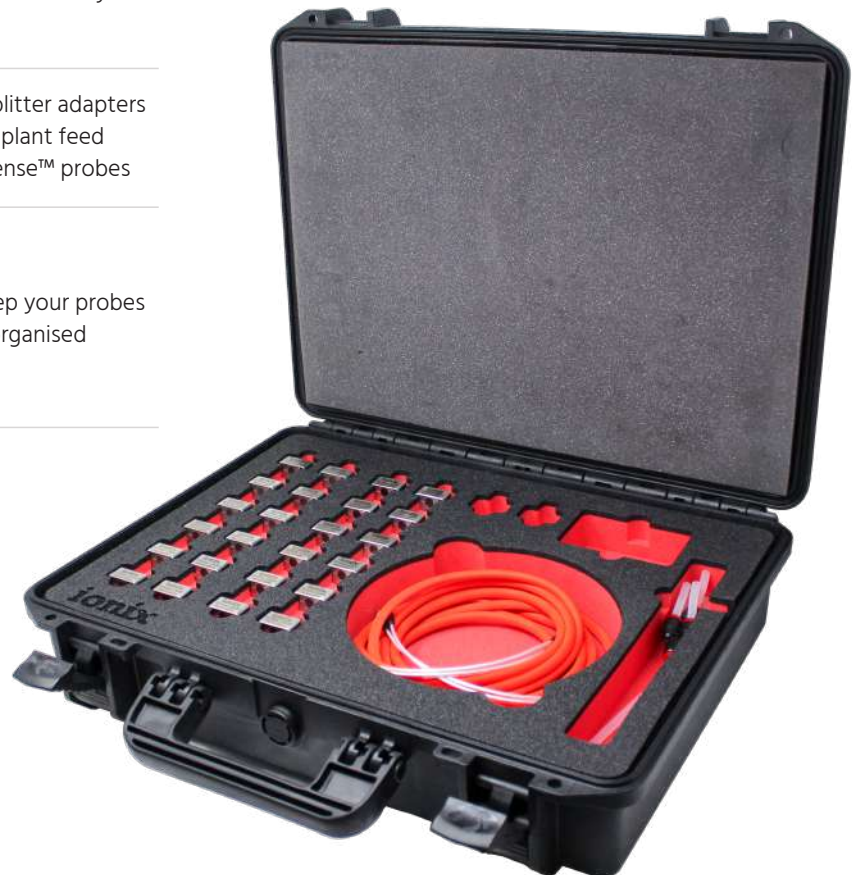
| DESCRIPTION | APPLICATION |
|---|--|
| HotSense™ TOFD - 70 deg, 6 MHz probe, with 5 mm replaceable pivot pins, couplant nozzles to fit 4 mm to 4.5 mm tube | The higher frequency improves the measurement resolution and high nominal probe angle helps to reduce the dead zone near the surface. Recommended for wall thickness up to 25 mm |
| HotSense™ TOFD - 60 deg, 5 MHz probe, with 5 mm replaceable pivot pins, couplant nozzles to fit 4 mm to 4.5 mm tube | Balancing detection resolution and depth of penetration across the temperature range. The nominal probe angle of 60° make it suitable for wall thickness from 15 mm to 30 mm. |
| HotSense™ TOFD - 50 deg, 5 MHz probe, with 5 mm replaceable pivot pins, couplant nozzles to fit 4 mm to 4.5 mm tube | The lowest probe angle makes it suitable for thicker parts, up to 70 mm |

All probe angles provided as pairs with the following wedge axial outer diameter (AOD) profiles:
 Flat, NPS 8", NPS 12" and NPS 16"
 Total of 24 HotSense™ TOFD Probes

To explore more about the TOFD kit, scan the QR code



| INCLUDED ACCESSORIES | DESCRIPTION |
|---|---|
| 2 x High-temperature dual cable 5 m Lemo 00 to Lemo 00 | Rugged and reliable temperature resilient cables to connect to your scanner of choice |
| 4 x Y-Splitter with tubing for couplant feed | High temperature splitter adapters to connect your couplant feed system to the HotSense™ probes |
| HotSense™ TOFD - Protective case with cut-outs for 24 HotSense™ TOFD Probes, cables and accessories | A secure case to keep your probes safe, together and organised |



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