

HotSense™ Measurement Hub - low cost entry to thickness monitoring

Low Capex access to monitoring. Minimise operational risk and maximise productivity with enhanced asset intelligence

Complete fixed-point ultrasonic thickness measurement solution for use with standard UT gauges and flaw detectors. The lowest cost entry point for non-invasive corrosion and erosion in-service monitoring. Ideal for reducing Capex across applications in **refining, oil & gas, energy, nuclear** and **process sectors**.

Keywords: corrosion, erosion, in-service monitoring, extreme environments, high temperature



MEASUREMENT HUB

- **Full fixed point non-invasive corrosion and erosion monitoring** solution utilising the HotSense™ extreme environment UT sensors for -55 to +550 °C [-67 to 1,022 °F] applications.
- **ATEX / IECEx Zone 0 ready** to enable quick and safe deployments to be made in the most hazardous and inaccessible locations
- **Better data** with fixed sensors providing increased precision, accuracy and measurement frequency.
- **Low cost** entry into non-invasive corrosion and erosion monitoring using standard UT hardware and procedures
- **Flexibility to enable upgrade** to a full automated wireless system

DEPLOYMENT

- **HotSense™ Measurement Hub™** houses intrinsically safe sensor connections to enable quick and easy measurements to be collected from HotSense™ from an accessible location using your existing NDT equipment and procedures.
- **Compatible & Configurable to Ex Location installations** to meet site requirements and enable simple data collection under hot work permits.
- **Sensors installed on live plant in minutes** for in-service measurements, designed to survive the harshest of environments
- **The widest range of sensor deployment options** for pipes and vessels.

SOLUTIONS

- Your first step towards in-service automated integrity monitoring which uses your current NDT equipment and personnel.
- Increase your accuracy and precision by monitoring using installed transducers -up to 5X increase in precision compared to standard inspection methods.
- Facilitate measurements in hot, inaccessible locations and increase data collection frequency for improved trending to support RBI, FFS and FEA.
- Reduce costs with replacement of intrusive manual methods and reduced scaffolding / insulation removal
- Increase safety with reduced exposure to hazards and man-hours at asset.



hotsense® | Powered by ionix



MEASUREMENT HUB™ APPLICATION SPECIFICATION

PARAMETER	VALUE
Compatible UT Sensors	HotSense™ UT transducers
# sensors per Hub	1 to 4
Thermocouple type	K-type (optional) with IEC miniature connector
# thermocouples per Hub	0 to 4
Maximum distance from measurement location	3 m total cable length - base option, up to 16 m total cable length also available
Cable routing options*	Compatible with cable trays, sealed or open conduit
Sensor connector*	Sensor standard connector is Lemo 00 plug
UT hardware compatibility	Any meeting EN 12668-1 or ASTM E1065 with A-scan representation. Contact Ionix for more information or to screen
Measurement standard	Solution compatible with ISO 16809 and conventional in-service UT procedures

*Variations available via special request.

For other specification requirements or to purchase measurement hardware please contact our sales team.

MEASUREMENT HUB ENCLOSURE SPECIFICATION

PARAMETER	VALUE
IP Rating	IP66
Ex compatibility	Suitable for installation in ATEX / IECEx Zone 0 & 20 to IEC 60079-14
Material of construction	Coated mild steel - base option Stainless steel also available
Dimensions	250 x 250 x 150 mm - base option
Hub access	Lockable, swing door
Mounting	Pipe, pole or rail mounted with straps

Measurement Hub™ can be upgraded to a fully automated and wireless monitoring solution at any time

Contact Ionix for further information and to find a solution for your application.

HAZARDOUS LOCATION INFO

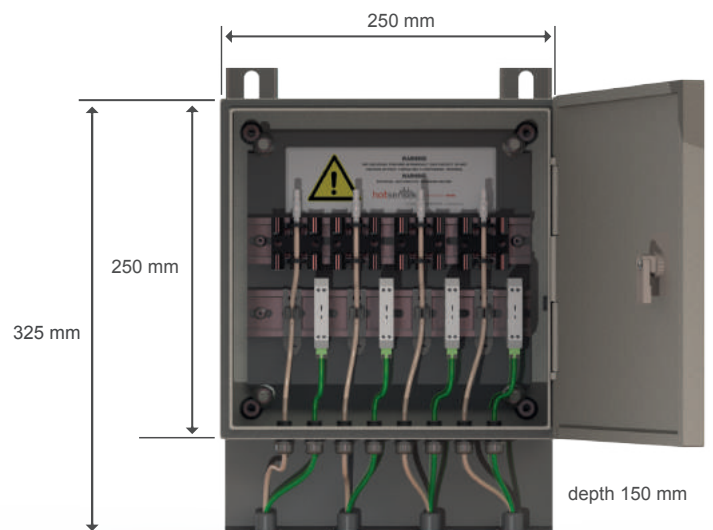
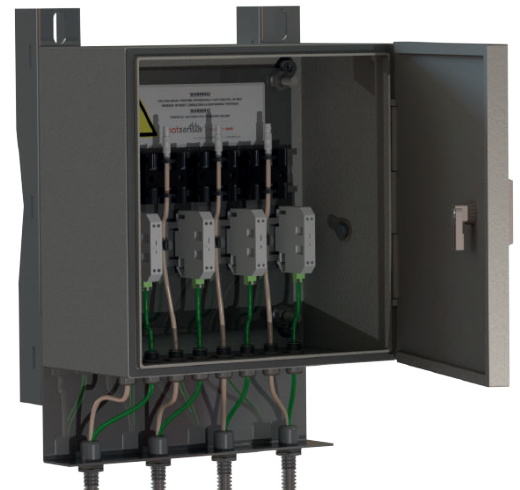
HotSense™ transducers and supplied thermocouples are certified to intrinsically safe standards

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

The Measurement Hub™ when installed within the requirements of IEC 60079-14 is compatible with Zones 0 (gas/vapour) and 20 (dust) hazardous locations.

Certificates and Descriptive System Documents available on request.

Measurements must be taken under a hot work permit or other recognised method without intrinsically safe UT hardware.



Want to discuss your demanding environment needs?

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