

# 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

**ionix**

ADVANCED  
TECHNOLOGIES



## 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.

**hotsensei** | Powered by **ionix**

**ix**



## MEASUREMENT HUB™ APPLICATION SPECIFICATION

PARAMETER	VALUE
Compatible UT Sensors	HotSense™ 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 ISO 22232 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 o
Hub access	Lockable, swing door
Mounting	Pipe, pole or rail mounted w

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

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

## HAZARDOUS LOCATION INFO

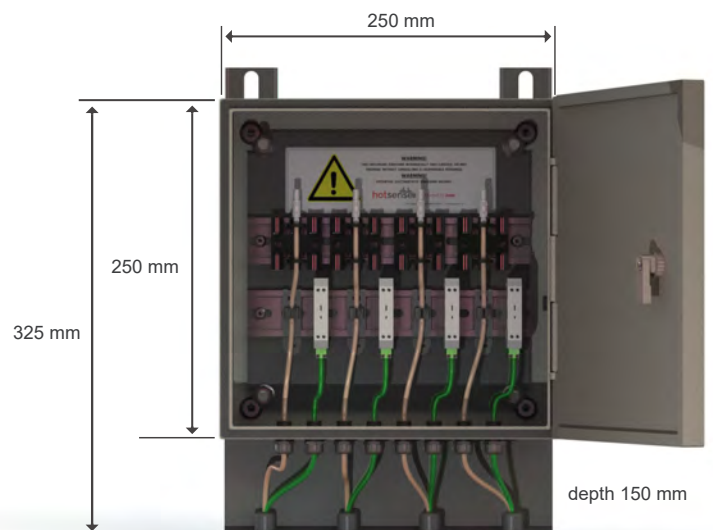
HotSense™ transducers and supplied thermocouples are certified to intrinsically safe standards

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?

+44 (0) 1484 505859

contact@ionix.at

www.ionix.at

@ionix\_at

ionix-advanced-technologies

@ionixadvancedtechnologies

