

## Spiral Probe

The **Geosense® Spiral Probe** measures the twist that can develop in installed inclinometer casing, particularly in deep and critical boreholes, providing the information needed to improve the accuracy and reliability of inclinometer surveys.



# Spiral Probe

## Overview



The Geosense Spiral Probe measures spiral (twist) in installed inclinometer casing, providing an additional level of accuracy for critical monitoring applications and deep boreholes (>50 m).

Within a vertical inclinometer installation, the casing grooves can experience a degree of spiral (twist) along their length. This twist may be caused by manufacturing tolerances in the casing or introduced during the installation process.

It is particularly important to understand the magnitude of this effect in deep installations (>50 m), where small amounts of twist can accumulate and have a greater impact on measurement accuracy.

The probe uses a high-accuracy magnetometer sensor to measure casing rotation throughout the borehole and can be used in environments containing metal, such as piles.



Integrated with the Geosense **Inclopro app**, the guided measurement process simplifies data collection.

Spiral measurements can be used to compensate inclinometer plots manually or automatically using the Geosense Inclopro Insight visualisation software.

## APPLICATIONS

- Deep borehole installations
- Pile monitoring
- Diaphragm walls
- Slope stability
- Pre-monitoring borehole twist profiling

## FEATURES

- Compatible with any Geosense Portable Inclinometer system
- Suitable for 70 & 85mm casing
- High accuracy rotational measurement
- IP68 (20 bar) rated
- 500mm gauge length for accurate compensation
- Lightweight and low profile
- 360° EMI Protection
- Detachable probe
- Robust construction



Compatible with any Geosense portable inclinometer system, cable and reel. A single survey is required, eliminating the need for a second 180° reading.

# Spiral Probe

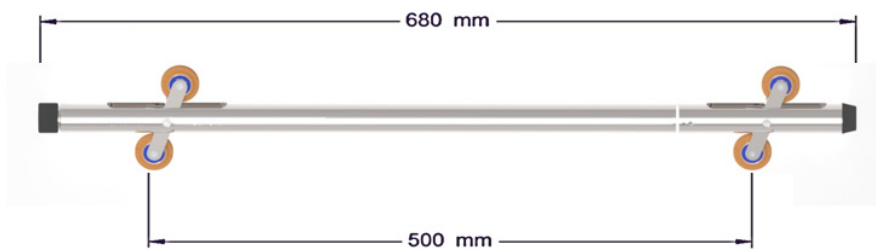
## Specifications

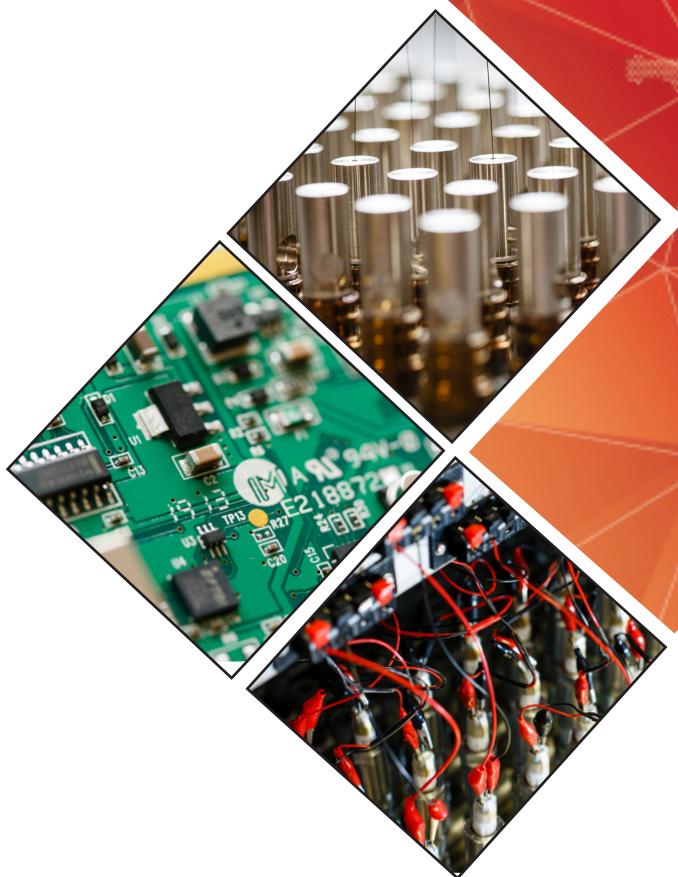
### PERFORMANCE

|            |                                 |
|------------|---------------------------------|
| Range      | +/- 5° from 0° (point to point) |
| Accuracy   | +/- 0.1°                        |
| Resolution | 0.05°                           |

### PHYSICAL

|                               |                 |
|-------------------------------|-----------------|
| Weight                        | 1.5 kg          |
| Overall Length                | 680mm           |
| Gauge Length (wheel to wheel) | 500mm           |
| Body diameter                 | 25mm            |
| Compatible Casing Sizes       | 70-85mm         |
| Material                      | Stainless Steel |





## HEAD OFFICE

Nova House  
Rougham Industrial Estate  
Rougham, Bury St Edmunds  
Suffolk IP30 9ND  
England

+44 (0)1359 270457  
sales@geosense.com  
support@geosense.com

## NORTH AMERICA OFFICE

15 West 38th Street  
Suite 632  
New York  
NY 10018

+1 518-920-3483  
sales@geosense.com  
support@geosense.com

[www.geosense.com](http://www.geosense.com)

Specifications are subject to change without notice and should not be construed as a commitment by Geosense. Geosense assumes no responsibility for any errors that may appear in this document. In no event shall Geosense be liable for incidental or consequential damages arising from the use of this document or the systems described in this document. All Content published or distributed by Geosense is made available for the purposes of general information. You are not permitted to publish our content or make any commercial use of our content without our express written consent. This material or any portion of this material may not be reproduced, duplicated, copied, sold, resold, edited, or modified without our express written consent.