



The Digital Inclinerometer Spiral Sensor is supplied in a hard cover carrying case.

	<b>PRODUCT CATEGORY:</b>
	INCLINOMETERS + TILT SENSORS

# Digital Inclinerometer Spiral Sensor

The RST Digital Inclinerometer Spiral Sensor is used to determine down-hole helical deformation of installed inclinometer casing. Installed casing spiral is a function of the manufacturing process, casing coupling, and installation technique.

Best casing installation practice requires that the casing be installed with the correct azimuth from the start and throughout the installation, with no torque applied either intentionally or otherwise during the installation. Such carefully installed RST inclinometer casing would typically maintain groove azimuth to within a few degrees over 30 meters. However, for very deep installations, or installations where twist due to installation problems is suspected, the Digital MEMS Inclinerometer Spiral Sensor permits measurement of the installed groove azimuth down-hole.

Operation is similar to the RST Digital Inclinerometer, using the same cable, reel, and hand-held readout\*. It is only necessary to read one data set; no 180 degree second reading set is required. Typically this measurement is only performed once in the life of the hole, as the casing is torsionally restrained by the backfill, typically grout. RST Inclinerometer Software processes the resulting spiral data set.

The Digital Inclinerometer Spiral Sensor is supplied in a robust carrying case.

## > APPLICATIONS

Determining spiral deformation of inclinometer casing installed in very deep boreholes.

## > FEATURES

"Hot swap" capability with RST's Digital Inclinerometer System - simply connect the probe to the reel's connector and prepare for spiral readings on the spot*.	No additional software required - Inclinerometer™ Software used for RST's Digital Inclinerometer System doubles as the method of processing spiral data.
The use of an inertial sensor to measure the groove azimuth variation eliminates errors due to: - sensor offset - wheel/groove clearance - friction - magnetic declination	Compact and lightweight design ensures spiral surveys in all casing orientations - unlike bulky traditional probes.

## > BENEFITS

- ✓ **High Reliability**
- ✓ **High Accuracy**

## SPECIFICATIONS

ITEM	DESCRIPTION
Material	Stainless Steel
Weight	1 kg
Overall Length	570 mm
Gauge Length	400 mm
Accuracy	±1° per 30 m typical
Resolution	0.1°
Compatible Casing Sizes	70 mm (2.75 in.) and 85 mm (3.34 in.)

## ORDERING INFO

ITEM	PART #
Digital Inclinerometer Spiral Probe	IC32705

## CONTROL CABLE

As spiral surveys are typically performed in deep boreholes, the lightweight Kevlar® strain relief employed in RST cable, eases operation in comparison to a heavy stainless strain relief cable.

\*Works with inclinometer systems with reel firmware 2.2 or later.  
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