

## Digital Inclinator Spiral Sensor

### Description

The RST Digital MEMS Inclinator 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 metres. However, for very deep installations, or installations where twist due to installation problems is suspected, the Digital MEMS Inclinator Spiral Sensor permits measurement of the installed groove azimuth down-hole.

Operation is similar to the RST Digital Inclinator, 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 Inclinalysis™ Inclinator Software processes the resulting spiral data set.

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

### DIGITAL INCLINOMETER SPIRAL SENSOR SPECIFICATIONS

ITEM	SPECIFICATION
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.)
Specifications	