

# IN980

## Spiral probe



### Description

The spiral probe is recommended when very accurate inclinometer measurements are required, with very deep inclinometer tubes (> 50mt) or when data processing shows an unlikely direction.

The mechanical components combined with state of the art electronics, allows optimizing the execution of site measurements, without having to manually insert big amount of data.

The INCLAB Manager & Processing software supplied as standard with the measuring system INCLAB, which automatically detects measurements at the desired distance.

The spiral probe consists of two wheel carriers and a central sensor-holder part. The distance between the trolleys (probe step) is equal to half a meter.

The rotary displacement sensor, positioned at the center of the probe, measures the axial deviation in degrees between the lower and the upper wheel.

The electric connection cable is equipped with a waterproof connector up to 50 bar. A special kevlar core gives the cable an inextensible feature, which guarantees reliability and precision while positioning.

The cable is also equipped with stainless steel reference notches every half meter and can have a maximum error on the length of  $\pm 5\text{cm} / 100\text{m}$  and a stretch, with a load of 20Kg, less than 0.05% of the nominal length (it is possible to use the same inclinometer cable also for the spiral probe).

The spiral probe is supplied with a strong carrying case.

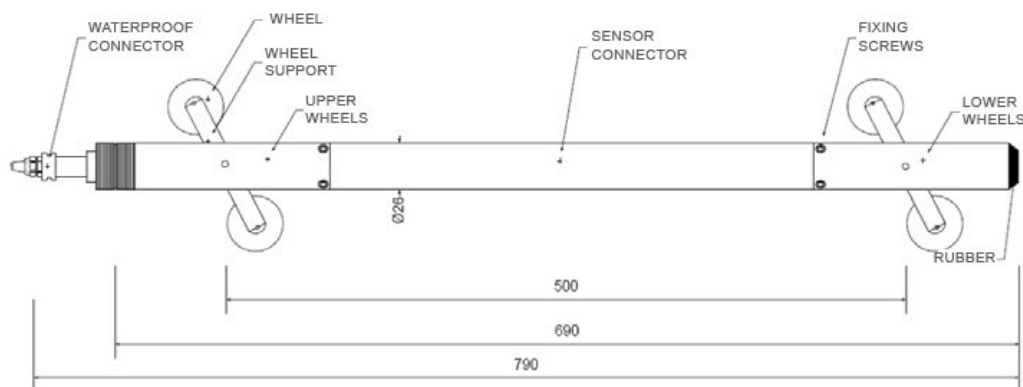
### Applications

Inclinometer tubes monitoring.



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### Technical features

Model	<b>IN980</b>
Sensor	Rotary potentiometric
Range	359°
Supply	15Vcc
Output	±5V
Linearity	0.1% FS
Repeatability	0.01%
Operating temperature	-10 ÷ +50 °C
Diameter	32 mm
Length	690 mm
Probe step	500 mm
Weight	2.8 Kg
Probe accuracy (20mt)	2 mm
Material	Stainless Steel
<b>Inclinometric cable</b>	<b>IN910-6022-MM**</b>
Conductors / Shielding / Reinforcement	5x0.15 / copper / kevlar braid
Square footage	Stainless steel notches every 0.5mt
Diameter	Ø6.5 mm
Weight	53g / 1mt
Reel weight with 50m cable	~4Kg
<b>Readout unit</b>	<b>INCLAB</b>
<b>Software</b>	<b>INCLAB Manager and Processing</b>

### Accessories

<b>Kit of wheels (4), springs (2), pins (4)</b>	<b>IN910-KT01</b>
<b>Kit of plugs (2)</b>	<b>IN910-KT02</b>
<b>Cable stopper</b>	<b>IN910-FECV</b>
<b>Bag</b>	<b>IN910-BRIN</b>
<b>Plastic reel 50m</b>	<b>IN910-RP50</b>
<b>Plastic reel 50m</b>	<b>IN910-RM50</b>
<b>Plastic reel 100m</b>	<b>IN910-RP00</b>

\*\*MM Indicate the meters