

## General

SIM, in order to measure the landslide movements, has developed the IN910 inclinometric system that has high quality features and also has easy and comfortable usage.

Cured mechanical features, joint with advanced electronics, allow optimizing the measurements without filling endless data.

The software, supply with the acquisition system, can automatically measure the A and B components at specific depths.

The inclinometer probe consists of two wheel-carriages and a central part containing the sensor. The distance between the two carriages (probe step) is 500mm.

The electric cable, equipped with waterproof connector up to 50 bar, is used as supporter for the probe during measurement. The cable has a kevlar core, which assure to cable a non-extendable feature and positioning precision.

The cable is also equipped with reference marks every 50cm and it has a max error of  $\pm 5\text{cm}/100\text{m}$  and a max extensibility, with 20Kg load, of  $<0,05\%$  of the nominal cable length.

SIM supplies, upon request, a dummy probe, which allows to test of the inclinometric casing before measuring, in order to avoid jamming the probe into the tube.

The probe is delivered with a rugged suitcase, used for the inclinometer transportation and the eventual dummy probe.

**Inclinometric measurements in landslides, dams, tunnels**

**Suitable to all commercial inclinometric casings**

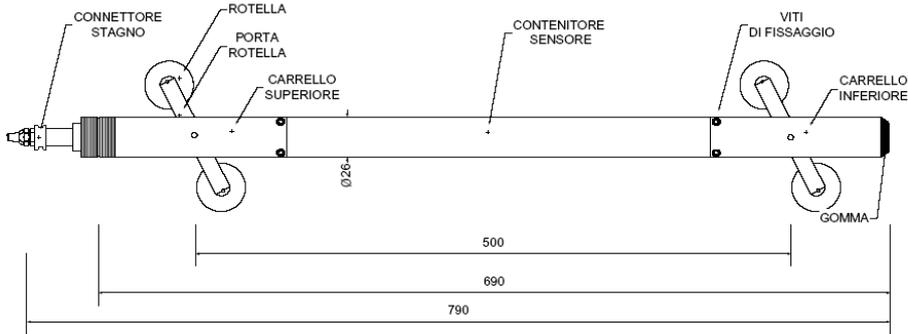
**Cable with kevlar core**

**Compact and light**

## Applications

Landslides monitoring, dams monitoring etc.





## Technical features

Model	IN 910 - SV	IN 910 - PN
Sensor	Servo accelerometer	Pendulum
Range	±15, ±30	±10, ±30
Supply	±15Vcc	5Vcc
Output	±5V	±173.6mV
Linearity	0.02% FS	0.5% FS
Repeatability	0.005%	0.1%
Alignment	0.2°	0.3°
Zero shift in temperature	0.005% FS/°C	0.05% FS/°C
Temperature sensibility	0.0005 V/°C	0.1 %
Operating temperature	-10 ÷ +50 °C	-10 ÷ +50 °C
Diameter (mm)	26	26
Length (mm)	690	690
Probe step (mm)	500	500
Weight	2.8 Kg	2.8 Kg
Probe precision (20mt.)	2 mm	5 mm
Material	INOX	INOX

## Accessories & spare parts

IN910 - AX - DP01	Dummy probe
IN910 - AX - CR02	Dummy probe cable, reel included
IN910 - AX - KT01	Kit wheels (4), springs (2), pin (4)
IN910 - AX - KT02	Kit caps (2) for inclinometer connectors



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# SIM

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