

General

The necessity for a continuous monitoring of the landslide areas with effective alarm systems, has led SIM to develop the fix depth inclinometers model IN930.

Keeping the same high quality features of the inclinometric system IN910, this model has the advantage of resetting the all the occasional errors existing in the mobile inclinometric measurements, as well as having real time landslide monitoring.

The IN930 probes can carry servo accelerometer sensor as well as pendulum. Inserted in inclinometric casing, they can measure position shifts of sliding planes.

The probe consists of a cart having inside the sensor. A desired number of probes are inserted in the inclinometric casing, installed at a specific depth.

The connection between the elements of the inclinometric column is fastened by a stainless steel cable and the distance between the probes can be decided or in the project phase as well as during installation.

The entire inclinometric column is hanged at the top the casing by a element called "Support head".

Since has this sensor an electrical output, it can be easily read by any data acquisition system produced by SIM:

- A. MINILOG data acquisition system
- B. NATUN data acquisition system
- C. DATAVIEW read out unit

Applications

Measurement of horizontal displacement in landslides, dams, embankments, bridges, tunnels etc.

Landslide monitoring

Stability of natural slopes monitoring

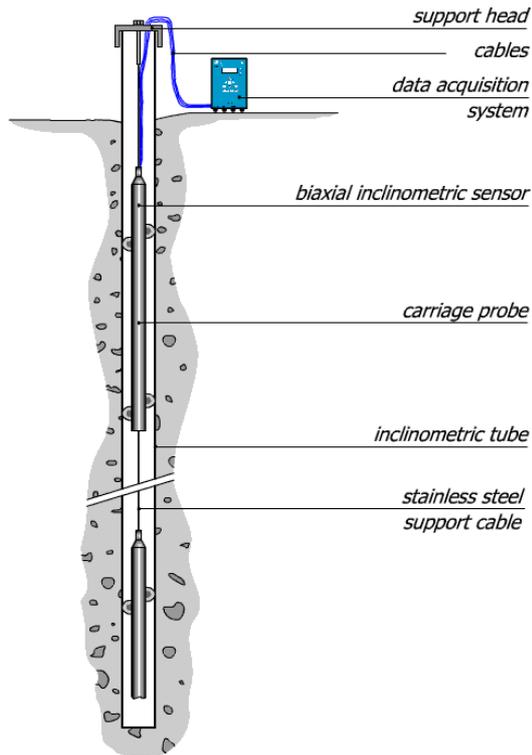
Stainless steel probe

Easy to install

Low cost



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Technical features

Model	IN930 - SV	IN930 - PN
Sensor	Servo accelerometer	Pendulum
Range	±15, ±30	±10
Supply	±15Vcc	12Vcc
Output	± 5V	±173,6mV
Linearity	0.05%	0.5%
Repeatability	0.005%	0.1 %
Alignment	0.2°	0.3°
Zero shift in temperature	0.005%F.S./°C	0.05%F.S./°C
Temperature sensibility	0.0005 V/°C	0.1 %
Probe precision (20mt.)	2 mm	5 mm
Operating temperature	-40 ÷ 80°C	-10 ÷ 50°C
Diameter (mm)	32 mm	25x25 mm
Length (mm)	1150 mm	1150 mm
Probe step (mm)	1000 mm	1000 mm
Weight	2.8 Kg	1.8 Kg
Material	INOX	INOX

Accessories & spare parts

IN930 - AX - CB01	Stainless steel cable
IN930 - AX - MR01	Clamps
IN930 - AX - TS01	Support head



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