

## IN-PLACE INCLINOMETER

### Description

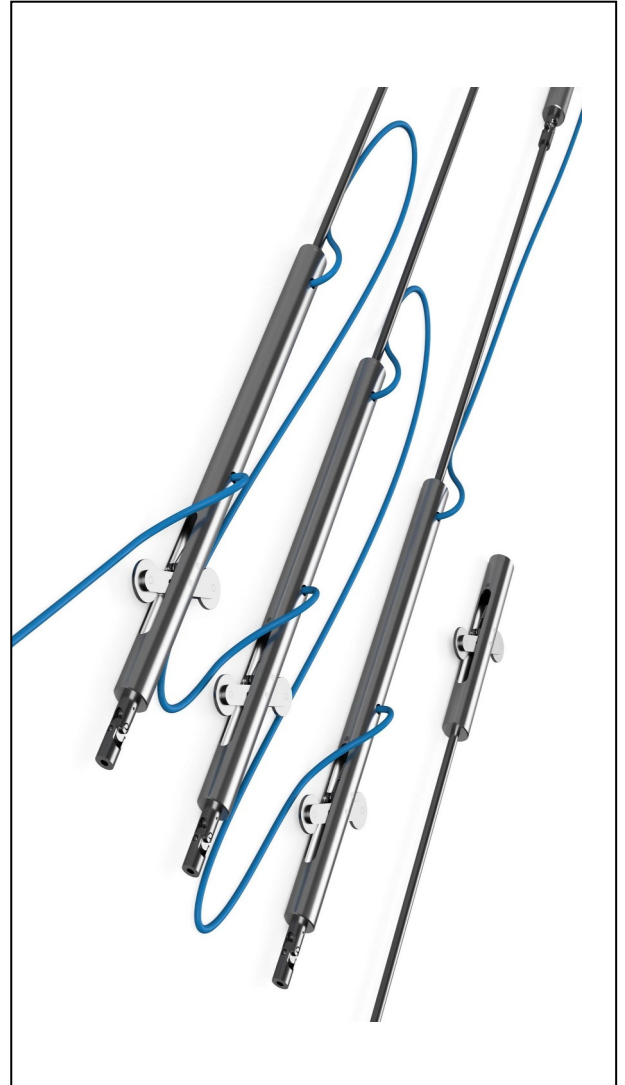
The In-place Inclinator consists of a tilt sensor type MEMS mounted inside a stainless steel tube through two coasters each equipped with a pair of wheels, inserted inside the tube inclinometer to continuously measure the deformation.

Generally connected to one another through a stainless steel cable in order to form a column of instruments, the In-place Inclinator are used in continuous monitoring of landslides and soil movements in general, but also in structural control of dams, walls, bulkheads, poles, masts, etc. The probe allows you to attach a stainless steel cable for the placement into the hole and for possible recovery. All mechanical parts, including the pair of coasters with wheels, are made completely in stainless steel AISI 316. The compartment that contains sensors and conditioning electronics is completely covered in resin to ensure maximum durability against water infiltration.

Gestecno also provides all the accessories for the correct installation of tools within the inclinometric tube columns (stainless steel suspension cable, suspension, stainless screws and nuts, etc.).

### Applications

- Unstable landslides and slopes
- Tunnels and dams
- Deep excavations
- Bridges and viaducts



### Features

- Reliability also for long time monitoring
- High resolution and accuracy
- Degree of protection IP68
- Hursh stainless steel construction
- Analog and digital outputs signals

## Technical specifications

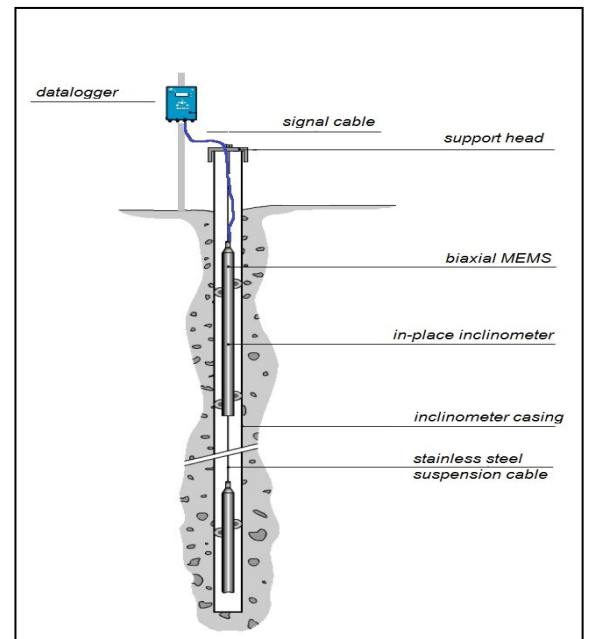
	Analog output model IFF-110	Digital output model IFF-510
<b>Sensor type</b>	biaxial MEMS	3D MEMS
<b>Range</b>	+/-10°, +/-30°	from +/-5° to +/-30°
<b>Power</b>	12-15 Vdc	12-15 Vdc
<b>Output signal</b>	0-5 Volt, 4-20mA (3 wires)	RS 485 (Modbus RTU)
<b>Resolution</b>	0.001°	0.0003°
<b>Total accuracy</b>	< 0.05% F.S.	< 0.02% F.S.
<b>Long term stability</b>	< 0.02°	< 0.01°
<b>Operating temperature</b>	-10...+60 °C	-10...+60 °C
<b>Dimensions</b>	30 mm diameter, 1200 mm lenght	30 mm diameter, 300 mm lenght
<b>Distance between wheels</b>	1000 mm	0.5-1.0-1.5-2.0 m
<b>Material</b>	stainless steel	stainless steel
<b>Suspension cable</b>	2 mm stainless steel cable	diam. 10 mm stainless steel rods

## Accessories and spare parts

- Support head
- Stainless steel suspension cable
- 1 m stainless steel rod
- Cut to size signal cable

## Please specify

CODE	PRODUCT DESCRIPTION
IFF-110	Analogic in-place inclinometer
IFF-300	Support head for analogic inclinometer
IFF-350	Stainless steel suspension cable
IFF-510	Digital in-place inclinometer
IFF-700	Support head for digital inclinometer
IFF-601	1 m stainless steel rod
IFF-400	Signal cable for in-place inclinometer



## For further information:

### Gestecno s.r.l.

Loc Lanciano, 22 - 62022 Castelraimondo (MC) - Italy  
 Tel/fax: (+39) 0737.642174 - P. IVA 01137480438  
 e-mail: info@gestecno.it - WEB: www.gestecno.it