

IN-PLACE TILTMETER

For monitoring ground movements or structures



The In-place Inclinator consists of a tilt sensor (or two tilt sensors mounted at 90° in the biaxial version) 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.

Novatest 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.).

TECHNICAL FEATURES

Probe dimensions:	diameter 30 mm, length 1400 mm
Distance between wheels:	1000 mm
Probe body material:	AISI 316 steel
Material of trolleys and wheels:	AISI 316 steel
Sensor type:	biaxial MEMS inclinometer
Measuring range:	from +/- 5 ° to +/- 20 °
Resolution:	0.005 °
Accuracy:	<+/- 0.1% F.S.
Supply voltage:	12-15 Vdc
Output signal:	4-20 mA with 3 wires
Operating temperature:	-10 ... + 40 ° C
Long-term stability:	<0.05 °