

# In-Place Extensometer and In-Place Extenso-Inclinometer

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## Applications

The In-Place Extensometer and In-Place Extenso-Inclinometer are used for the continuous automatic monitoring of the inclination and settlement of an Extenso-inclinometer casing.

In particular it can be applied in:

- walls and rock masses
- landslides and unstable slopes
- tunnels excavations
- bulkheads and levees
- earth and concrete dams
- foundations

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## Technical features

The In-Place extensometers and In Place Extenso-Inclinometers are designed to measure settlement (just extensor-sensor) and settlement + biaxial inclination (3D combined sensor). A robust stainless steel body ensure an instrument rugged and reliable.

## Installation

The installation of In-Place extensometers and In Place Extenso-Inclinometers usually requires a measurement campaign before installation. The probe must be installed in ABS casing with pre-installed appropriate magnetic rings.

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## Technical specifications



Code	OESTFO00100	OESTFO15100 – OESTFO30100
Description	In-Place Extensometer	In-Place Extenso-Inclinometer Inclinometer mono e biaxial mems
Principle of functioning	Position transducer	Position transducer + MEMS
Range extensometer	+/-50 mm or +/- 100 mm	+/- 50 mm
Resolution extensometer	0.01 mm	0.01 mm
Power supply	24 Vdc	24 Vdc
Output signal extensometer	0-10 Vdc	0-10 Vdc
No linearity	< 0.5% F.S.	< 0.5% F.S.
Temp. coefficient sensor	0.005% FS/°C	0.005% FS/°C
Range Inclinometer		+/- 15° o +/- 30°
Resolution		0.001°
Output signal inclinometer		+/- 4.0 Vdc (variable on request)
No linearity		< 0.5% F.S.
Cross axis		< 1%
Termal drift		<0.002°/K
Operating temperature	from -20°C to +60°C	
Material sensor housing and whells	Stainless steel AISI 316 with fiber wheels	
Max. diameter	38 mm	
Whell base	1000 mm	
Total length	1230 mm	

## Accessories

Code	
O00IPI30000	Suspension head for in-place inclinometer
O00IPI30001	Stainless steel support wire OD 1.5 mm
OCABLE00001	3x2x0.25 Cable, pur, shielded 8 mm, kevlar rope



Suspension head  
(Code O00IPI30000)



## Details



Data acquisition system  
datalogger D800  
(Code O0D800C0008)

Data transmission system  
via radio module  
(Code OD0WL500000)