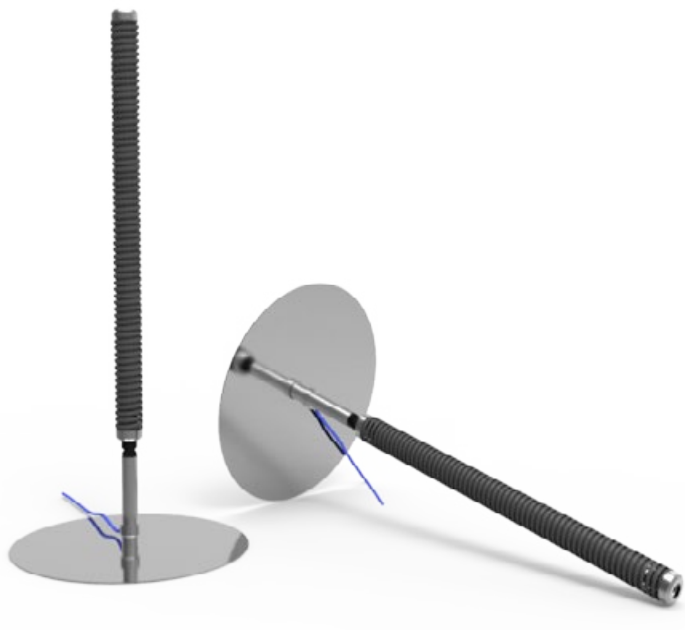


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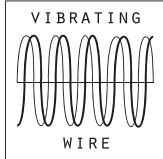
— EMBANKMENT
EXTENSOMETER

EXTENSOMETERS
& DEFORMETERS





EMBANKMENT EXTENSOMETERS



Embankment extensometers are chain extensometers used to measure lateral strains in large earth structures.

The extensometer consists of an anchor plate, a vibrating wire displacement transducer, and an extension rod. In typical installations, extensometers are joined into chains, with each unit sharing an anchor plate with the next.

The extensometer chains are installed in trenches aligned with the expected axis of deformation. Displacement transducers on each unit monitor the changes in the distance between anchor plates.

APPLICATIONS

- Lateral strains beneath earth and rock fill dams or embankments
- Foundation movements and control of natural and cut slopes, quarry and mining excavations

FEATURES

- Vibrating wire technology provides long-term stability
- Displacement sensors are available in 50, 100, and 150 mm ranges.
- Armoured jacket prevents damage to signal cables.

CE Meet the essential requirements of the EMC Directive 2014/30/UE

TECHNICAL SPECIFICATIONS

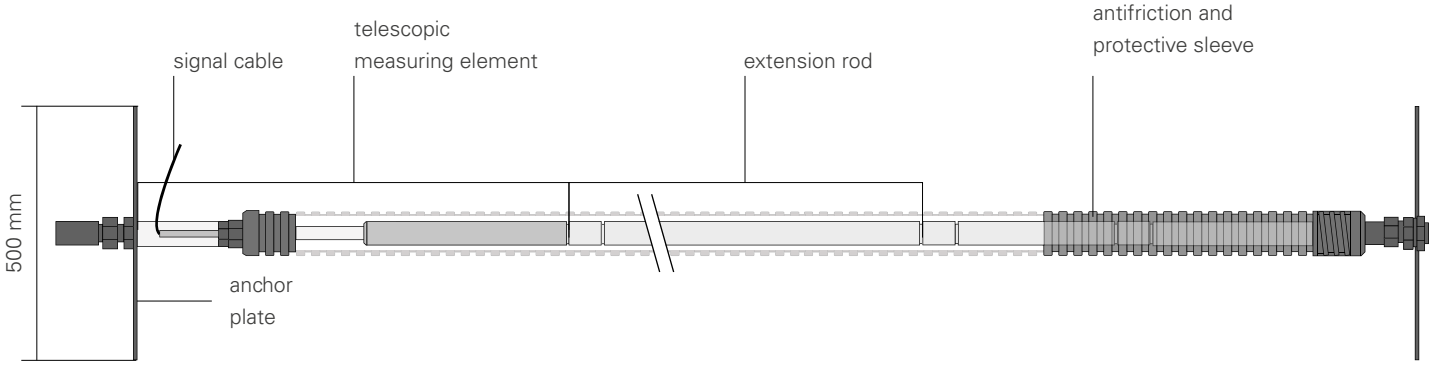
	EXTENSION RODS	ANTIFRICTION SLEEVE
PRODUCT CODES	0D2320BM000	0D111PV5500
Length	1, 2 or 3 m (~ 3, 6 or 9')	continuous
Dimensions	Ø 27 mm (1 1/4")	Ø 55 mm (2.2") nominal
Material	galvanised steel	corrugate pvc

	ANCHOR PLATES	
PRODUCT CODES	0D232AN5000	0D232AN5500
Dimension	Ø 500 mm (20")	square, 500 x 500 mm
Material	galvanised steel	galvanised steel

	TELESCOPIC MEASURING ELEMENT		
PRODUCT CODES	0D232T050VW	0D232T100VW	0D232T150VW
Measurement principle	vibrating wire with built-in thermistor		
Range	50 mm (2")	100 mm (4")	150 mm (6")
Accuracy Pol. MPE ⁽¹⁾	< ±0.30% FS	< ±0.30% FS	< ±0.30% FS
Output signal	frequency (VW), resistance (thermistor)		
Sensitivity ⁽²⁾	see calibration report		
Typical frequency range ⁽³⁾	2250 - 3000 Hz		
Operating temperature	-20°C +80°C		
Length	1000 mm ±25 mm	1000 mm ±50 mm	1000 mm ±75 mm
Material and IP class	stainless steel, IP68 up to 1.0 MPa		
Signal cable	0WE104X20ZH		
Max cable length to logger ⁽⁴⁾	1000 m (for more information see FAQ#77)		

(1) MPE is the Maximum Permitted Error on the measuring range (FSR). In the Calibration Report, the accuracies of the gauge are calculated using both linear regression and polynomial correction (≤ Pol. MPE)
 (2) Sensitivity is a specific parameter different for every gauge. The sensitivity is calculated during gauge calibration test and inserted into the calibration report.
 (3) The expressed frequency range could have a ±10% variation (4) refer to FAQ section of Sisgeo website: www.sisgeo.com/assistance/faq.html

PHYSICAL FEATURES



ACCESSORIES AND SPARE PARTS

ARMoured SIGNAL CABLE OWE104X0200

22 AWG, 4-wire signal cable with LSZH jacket, reinforced with galvanised steel braid. External diameter 7.8 mm. Temperature rated -30° to +80 °C.

ELECTRIC JUNCTION BOX OEPD0000000

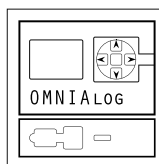
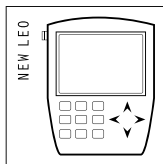
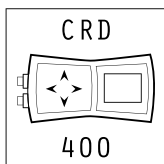
Junction box to connect up to 10 cable inputs to one multicore cable output for connection to a remote data acquisition system.

SWITCH BOX OEPC0000000

Various sizes to accommodate up to 24 transducers.



READABLE BY



Refer to separate datasheets for further information

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TECHNICAL ASSISTANCE

SISGEO offers customers e-mail and phone assistance to ensure proper use of instruments and readout and to maximize performance of the system.

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