



## **EMBANKMENT EXTENSOMETERS**

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

Embankment extensometers are usually incorporated in the filling material, chained together by means of extension rod.

The system consists of several measuring units connected by extension rod to the anchor plates.

Measuring unit is a telescopic section equipped with displacement transducer. Vibrating wire displacement transducers are available in different ranges.

**Lateral strains  
beneath earth and rock  
fill embankments  
and dams**

**Foundation movements  
and control of natural  
and cut slopes, quarry  
and mining excavations**

**Displacements across  
joints and faults in rock**

**Displacements of  
retaining walls, bridge  
piers and abutments**



# EMBANKMENT EXTENSOMETERS

## ACCESSORIES AND SPARES

OWE104X0200	Electric signal cable	Four conductors cable (22AWG) with stainless steel armoured shield. Cable is fitted to the electrical transducer during manufacture
OEPD0000000	Electric junction box	Junction box to connect up to 10 cable inputs to one multicore cable output for connection to a remote data acquisition system
OEPC0000000	Switch box	Switch measuring box to terminate cables at readout point. Available in different sizes to connect up to 24 trasducer outputs



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## TECHNICAL SPECIFICATIONS

Model	OD2320BM000	OD111PV5500	OD232AN5000	OD232AN5500
Description	Extension rod	Antifriction and protective sleeve	Anchor plate	Anchor plate
Length	1.0, 2.0, 3.0 m	Any length coil	-	-
Dimension	OD 3/4" G (27mm)	OD 55 mm nominal	OD 500 mm	500 x 500 mm
Material	Zinc plated steel	Corrugate PVC	Zinc plated steel	Zinc plated steel

Measuring element	OD232T050VW	OD232T100VW	OD232T150VW
Type of sensor	vibrating wire linear transducer		
Full scale	50 mm	100 mm	150 mm
Total accuracy (linearity+hysteresis+repeatability)	<0.5% FS	<0.5% FS	<0.5% FS
Resolution	0.01 mm (depending on the readout unit)		
Signal output	frequency (VW), ohm (T)		
Operating temperature	-20° C + 80° C		
Length with rod extended	1025 mm	1050 mm	1075 mm
Material	stainless steel		

**CE** electromagnetic compatibility according to EN 61326-1 and EN 61326-A1 directives for EMC emission and immunity

