



FIXED EXTENSOMETERS

Fixed extensometer is usually defined as device placed in embankment fill or inside borehole for monitoring of settlement or heave between two points without use of a removable probe.

Either the Settlement Platform and the Tell-Tale extensometer are based on a riser settlement rod which is respectively connected to a plate buried at the embankment foundation level or grouted inside borehole as a deep benchmark in a firm soil.

Optical levelling measurements to the top of the riser rod provide precise monitoring. Electrical transducer can be used for remote readings without the need of survey crew.

**Monitoring settlement
below embankments on
soft ground**

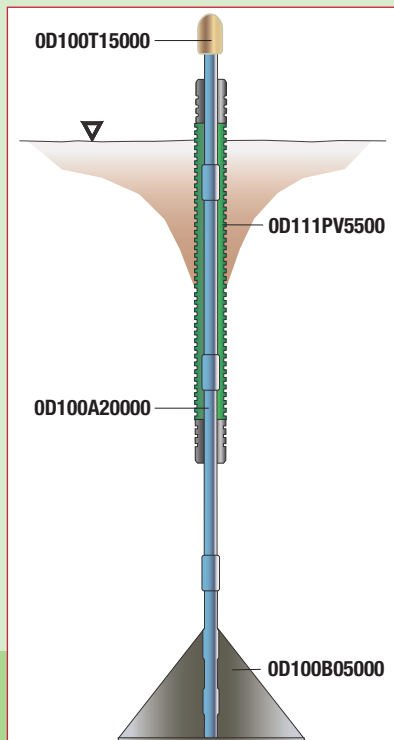
**Direct measurements of
ground surface
settlement or heave**

**Monitoring deformation
around underground
excavation**

**Providing deep datum for
determination of
absolute settlement**

FIXED EXTENSOMETERS

SETTLEMENT PLATFORMS



Settlement platforms are typically used for monitoring settlement below embankments on soft ground. Sisgeo settlement platform consists of a galvanised steel square plate to which a riser settlement rod is attached. Optical levelling measurements to the survey point mounted at the top of the settlement rod provide a record of plate elevations. An anti-friction corrugate sheath is placed around the riser rod. Two sliding rings at the top and at the bottom of the settlement rod and a gap between the plate and the bottom of the corrugate sheath prevent downdrag forces on the riser rod.

Product code	Settlement Rod OD100A20000	Corrugate Sheath OD111PV5500
Outer Diameter	25 mm	55 mm (nominal)
Section length	2000 mm	supplied in roll
Type of junction	external couplings (M25 thread)	continuous (self-screwing connection)
Material	stainless steel	PVC

Product code	Square Plate OD100B05000	Top Cap and Survey Point OD100T15000
Dimension	500x500 mm	OD 40 mm, 50 mm long
Material	galvanised steel	brass

TELL-TALE EXTENSOMETER

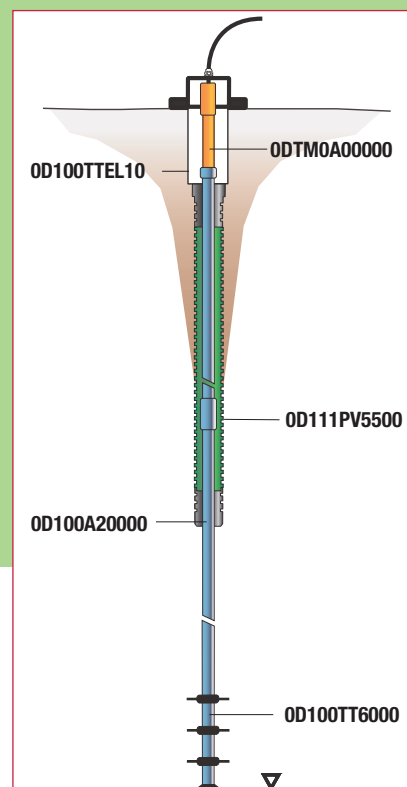
Tell-tale extensometer is a single point which is typically used for precise monitoring of ground surface settlement or heave. It consists of a stainless steel bottom anchor to which a riser measuring rod is attached. Anti-friction corrugate pipe is placed around the riser rod. Optical levelling measurements to the top head of the riser rod provide a record of ground settlement. Sliding rings at the top and at the end of the junction between riser rod and corrugate pipe prevent downdrag forces on the rod.

Product code	Measuring Rod OD100A20000	Corrugate Sheath OD111PV5500	Tell-Tale Anchor OD100TT6000
Outer diameter	25 mm	55 mm (nominal)	60 mm
Section length	2000 mm	supplied in roll	600 mm
Type of junction	external couplings (M25 thread)	continuous (self-screwing connection)	
Material	stainless steel	PVC	stainless steel

Tell-Tale Measuring Head	OD100TT01000	OD100TTEL10
	for optical measures	for remote reading with DTM transducer
Diameter	40 mm OD survey pin	100 mm OD tube
Length	50 mm	1125 mm for embedment
Material	brass survey point and stainless steel protective cap	stainless steel

DTM TELL-TALE ELECTRICAL TRANSDUCER

Nominal range	250 mm	500 mm	1000 mm
Measuring range	210 mm	460 mm	960 mm
Linearity		0.05% FS	
Repeatability		< 0.08 mm	
Hysteresis		< 0.25 mm	
Signal output		4-20 mA (current loop)	



www.sisgeo.com

SISGEO s.r.l. Via F. Serpero 4/F1 20060 Masate (MI) Italy Ph +39 02 95764130 Fax +39 02 95762011
info@sisgeo.com

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