

Magnetic Extensometer

The Geosense® GEO-XM settlement system is used typically to monitor settlement and heave in foundations, excavations and embankments. Settlement is identified at the depth/position where the settlement has occurred and as well as measuring the total amount of settlement.

The GEO-XM system comprises a series of magnetic targets positioned so that they move freely outside flush jointed access casing or inclinometer casing. The targets may be 3 or 6 Leaf "Spider" targets, magnetic settlement plates or magnetic joints.

Settlement is measured by the relative position of the magnetic targets using a Reed Switch Probe that detects the magnets lowered down through the central access casing. Inclination where desired is measured using a portable inclinometer



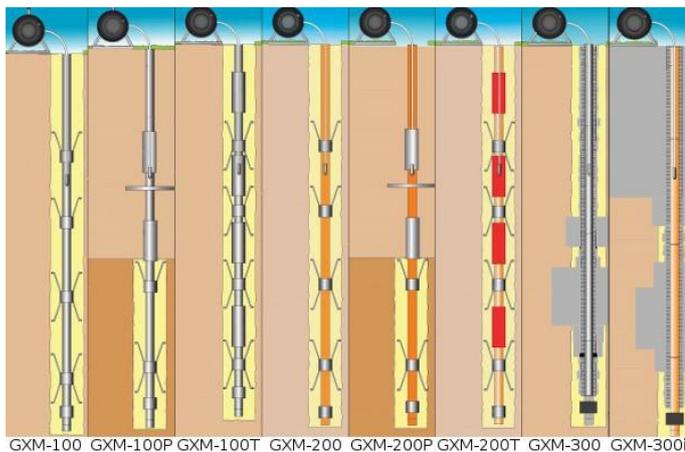
Ordering Information

- Geo-XM Variety
- Depth of installation
- Target type
- Number of magnetic targets and datum magnets
- Reed switch probe range
- Installation tool range

Features

- Measures Total & Incremental Settlement
- Simple to Install
- Can be used with standard Reed Switch Probe

GEO-XM Settlement layouts



Applications

- Excavations
- Embankments
- Dams
- Tunnels
- Foundations

Technical Specifications

Reed Switch Probe	30, 50, 100, 150, 200 m
Installation Tool	30, 50, 100, 150, 200 m
Mastic Tape	10 m

Magnetic Extensometer

GXM-100 Series Specifications

GXM-100, 100P & 100T use un-keyed access casing to monitor only settlement or heave in foundations.

Access Casing Specifications:

Access Casing OD: 33mm
 Access Casing ID: 25mm
 Access Casing Length: 1.5 or 3m
 Access Casing Weight: 0.6 kg/m
 Bottom Cap OD: 33mm
 Material: PVC

Access Casing Telescopic Section Specifications:

Telescopic Section OD: 42mm
 Telescopic Section ID: 35mm
 Length: 500mm
 Weight: 0.5 kg
 Material: PVC

Access Casing Magnetic Target Specifications:

Spider Magnets: 3 & 6 Leaf*
 Magnet Targets: 35x60mm
 Plate Magnet Target: 33x300mm
 Datum Target: 33x60mm

GXM-200 Series Specifications

GXM-200, 200P & 200T use inclinometer casing so that the combined system can monitor settlement, heave and also inclination with the use of a portable inclinometer.

Inclinometer Casing Specifications

Casing OD: 70mm 83mm
 Casing ID: 59mm 71mm
 Casing Length: 1.5 or 3m
 Casing Weight: 1.27 kg 1.35 kg
 Material: ABS
 Groove Spiral: <0.005 Rad/3m
 Bottom Cap OD: 70mm 83mm

Inclinometer Casing Telescopic Section Specifications

Section OD: 70mm 83mm
 Compressed Length: 508mm
 Extended Length: 660mm
 Range: 152mm
 Weight: 0.77 kg 0.90 kg
 Material: ABS
 Groove Spiral: <0.005 Rad/3m

Inclinometer Specifications

Inclinometer	Casing	Magnetic	Target
Spider Magnets: 3 & 6 leaf			
Spider Target Chain: 300mm		400mm	
Spider Target: Release pin			
Magnet Target: 100x70mm		110x85mm	
Datum Target: 100x70mm		110x85mm	

*6 Leaf targets only size suitable for high settlement regions with many telescopic joints

GXM- 300 Series Specifications

The GXM-300 & 300i series surround either access casing or inclinometer casing with a flexible corrugated pipe that moves freely. It is intended for use in regions where high settlement is expected.

Corrugated Pipe Specifications

Pipe OD: 42mm
 Pipe ID: 35mm
 Length: 3m or 50m coil
 Magnetic Target/Coupler: 42x50mm
 Material: PE
 Bottom Cap: 43mm

About PCTE

PCTE have over 30 years' experience in the measurement and testing of construction materials. PCTE can provide more than just the equipment, they can provide expert training. PCTE have a service centre in Sydney in which they can provide calibration, repairs and warranty repairs.

PCTE supply three main ranges: NDT, Lab and Geotech Instrumentation.

NDT includes: Rebound Hammers, Covermeters, Ultrasonics, GPR, Corrosion Testing, Coating Testing and Foundation Testing

Lab includes equipment for: Concrete, Cement, Aggregate, Soil, Asphalt and Metal

Geotech Instrumentation includes: Strain Gauges, Piezometers, Inclinometers, Extensometers,