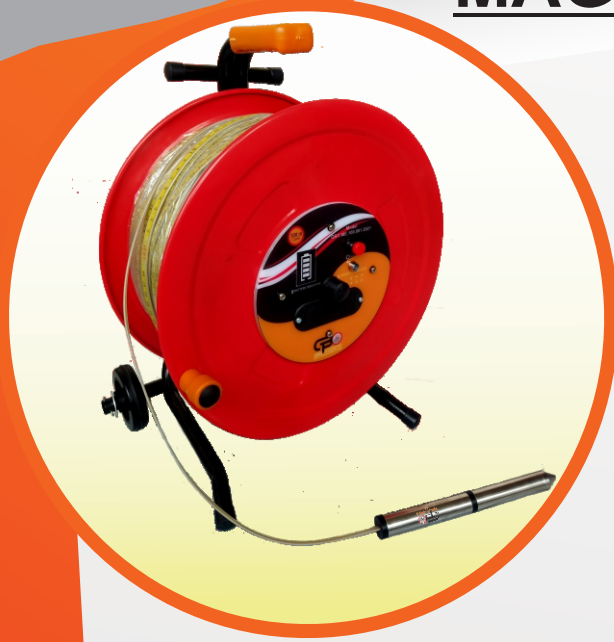


MAGNETIC EXTENSOMETER SETTLEMENT INDICATOR



• Main Unit Magnetic Extensometer

Applications

The **GBO magnetic extensometer** is used to monitor settlement and heave in excavation, foundations, and embankments. Readings obtained with the extensometer indicate the depths at which settlement has occurred as well as the total amount of settlement.

Features

- Stainless Steel Probe Material
- Replaceable 9V Battery
- Visible and Audible Indicators
- Waterproof Construction
- Stretch Resistant Measuring Tape

The **GBO Magnetic Extensometer** are available in 2 main configurations. All 2 configurations listed below use an GBO Reed Switch Probe to provide a reading in magnetic zones allocated along the length of borehole.

MAGNETIC EXTENSOMETER WITH 1" PVC PIPE

Installation as a single purpose device to monitor settlement only.

MAGNETIC EXTENSOMETER WITH INCLINOMETER CASING

Installed in conjunction with GBO Inclinator Casing to obtain both vertical and horizontal deformation data from a single installation.



• Spider Magnet Anchor



• Reed Switch Probe

Components

Reed Switch Probe : The reed switch probe is a reading unit that will produce sound and light (*at main unit*) when it encounters a magnetic field.

Access Pipe : Subsurface access for the probe is provided by inclinometer casing or 1 inch (33mm O.D) PVC pipe.

Plate Magnet : The plate magnet is used in fill. It is positioned at the specified elevation and then covered with fill material.

Spider Magnet : The spider magnet is used in boreholes. The legs are compressed for installation and released when the magnet is positioned at the specified depth.

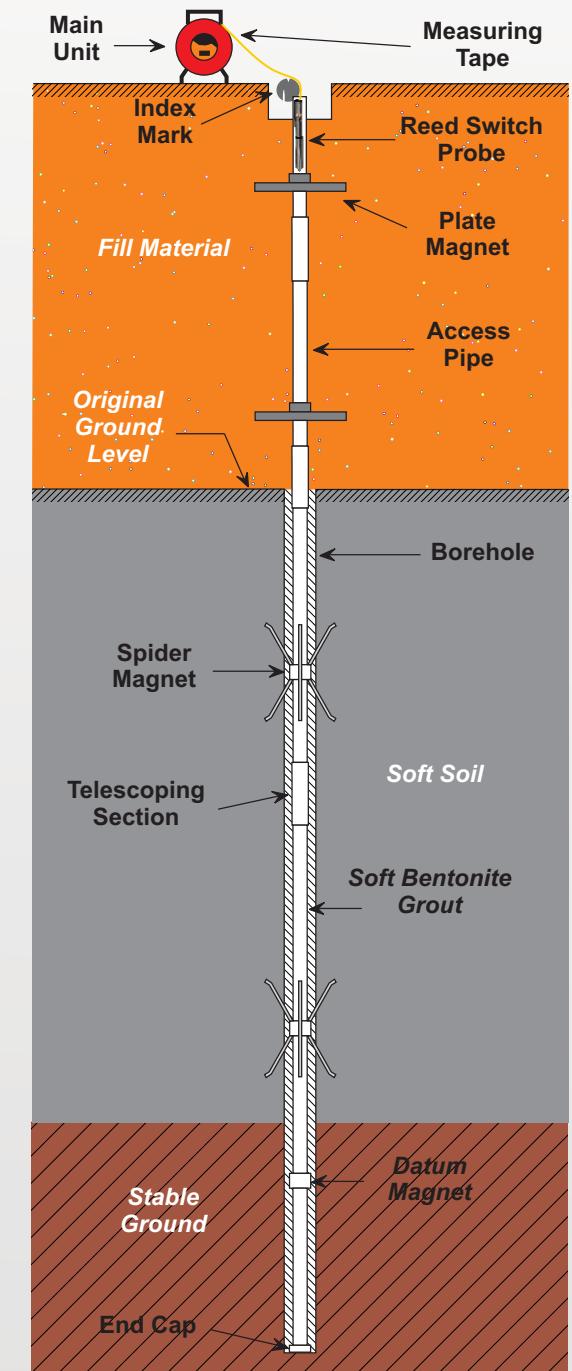
Datum Magnet : The datum magnet is fixed directly to the bottom section of access pipe where the soil is stable.

Index Mark : Index Mark is used to mark the depth of reading on the measuring tape.

Technical Specifications

Cable Lengths	50 m, 100 m, 150 m, 200 m
Resolution	± 1 mm
Probe Construction	Stainless Steel and Hard Nylon
Probe Dimension (L x Ø)	182 x 19 mm
Access Tube	33 mm (1.3") O.D Sch. 80 PVC
Plate Magnet Material	PVC
Plate Magnet Dimension (L x W x D)	300 mm x 300 mm x 9.5 mm
Spider Magnet Material	Body : PVC Legs : Spring Steel
Spider Magnet Dimension (L x O.D x I.D)	Closed : 445 x 70 x 34 mm Released : 445 x 203 x 34 mm
Datum Magnet Material	PVC
Datum Magnet Dimension	54 x 60 mm
Borehole Size	102 - 152 mm (4 - 6")
Power	9V Alkaline Battery

Other ranges available on request



• Typical Borehole Installation

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