

MAGNETIC EXTENSOMETER - RAISED FILL

MODEL 4720

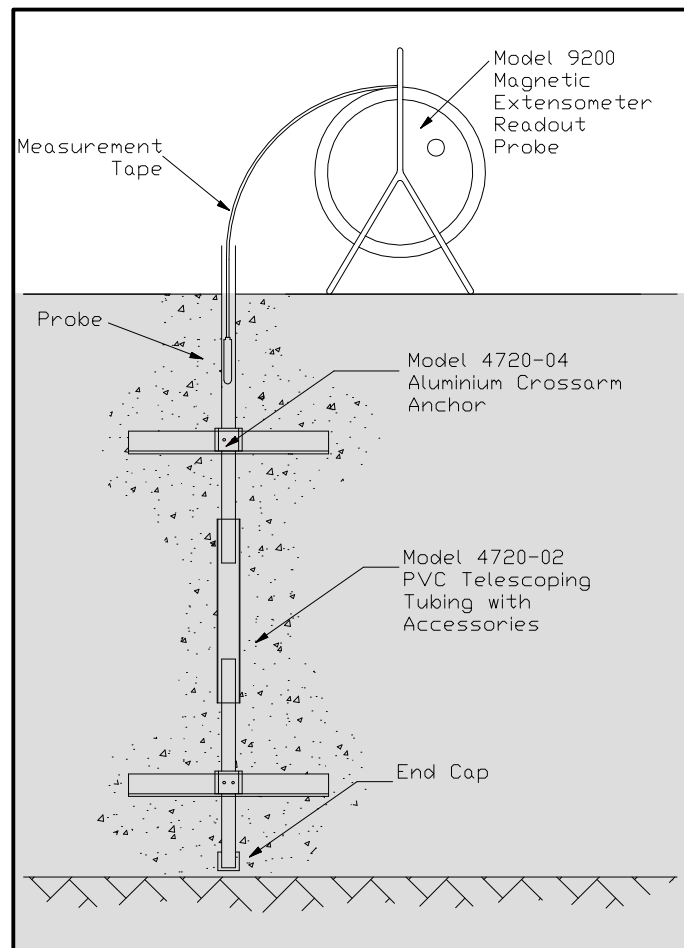
APPLICATIONS

The measurement of soil and rock movements including: -

- Settlement, heave and lateral movements in embankments
- Subsidence
- Movement of slopes, quarry and mining fill
- Displacement of retaining walls, bridge piers and abutments

FEATURES

- Reliable, accurate, simple to install and read
- No limits to the number of points that can be installed in one borehole
- Can be extended simply
- One probe required for multiple installations
- Very economical
- Australian manufactured with local backup



OPERATING PRINCIPLES

Ring magnets set in a cross arm anchor, sliding on a central access tube are fixed in the ground at locations where movement is to be monitored. These magnets are placed during construction of the earth works. Location of the targets is accomplished by passing a reed switch probe through the access tube. When the probe enters the magnetic field generated by the target, an audible signal is emitted at ground level. Measurements made with a magnetic readout probe are referenced to the top of the tube, which can then be related to a datum by conventional survey methods. The targets are designed to move independently of the access tube and the access tube is designed to telescope allowing for large settlements without loss of readings.



Quality
Endorsed
Company

ISO 9002 Lic 4022
Standards Australia

GEOTECHNICAL SYSTEMS AUSTRALIA PTY. LTD.

Specialists in Geotechnical Instrumentation

ACN 006 720 887
ABN 28 006 720 887



SPECIFICATION	MAGNETIC EXTENSOMETER – RAISED FILL	Model 4720
Anchor	6 x Rare Earth Magnets Fixed to Aluminium Crossarm Anchor	
Telescopic Tube	32mm ID PVC Tubing	
Access Tubing	25mm Dia PVC Conduit	
Readout Unit	Reel Mounted Probe c/w Steel Tape Measure in mm	

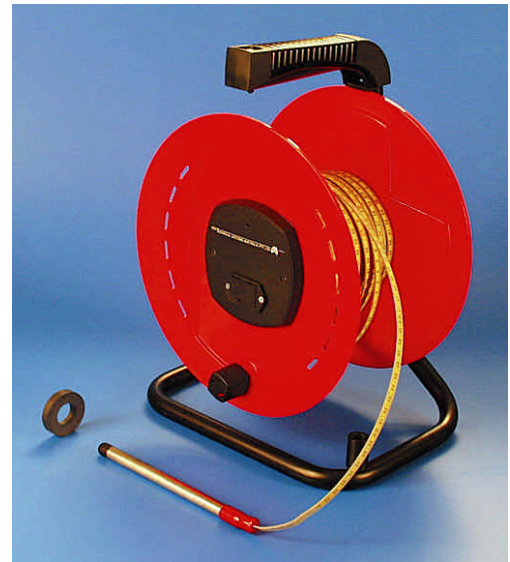
MAGNETIC EXTENSOMETER READOUT PROBE		Model 9200
This item of equipment is available in the following lengths:		
Model No.	Description	
9200-01	10 metre (c/w push rods)	
9200-02	30 metre (Flat Tape System)	
9200-03	50 metre (Flat Tape System)	
9200-04	100 metre (Flat Tape System)	
The readout is manufactured in Australia from quality components and is generally available off the shelf from our Melbourne factory. The typical dimensions are as follows:		
Reel	300mm L x 260mm W x 360mm H	
Tape	1.5mm Thick x 10mm Wide	
Probe	12.5mm Dia x 200mm Long	

Model 9200 Readout Probe (Below)

ORDERING INFORMATION

When ordering, please also specify

- Model Number
- Anchor Quantity
- Instrument Length
- Telescoping Tubing Quantity
- Number of Installations
- Readout Requirements
- Any Custom Requirements



Because GeoTechnical Systems is continually improving its products and processes, information contained within this brochure is subject to change without notice.

For more information or to discuss your application, contact...

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