

# WIRE EXTENSOMETER

## MODEL 4015

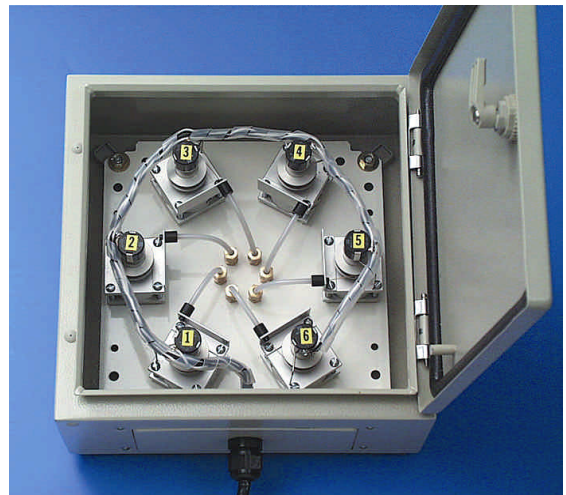
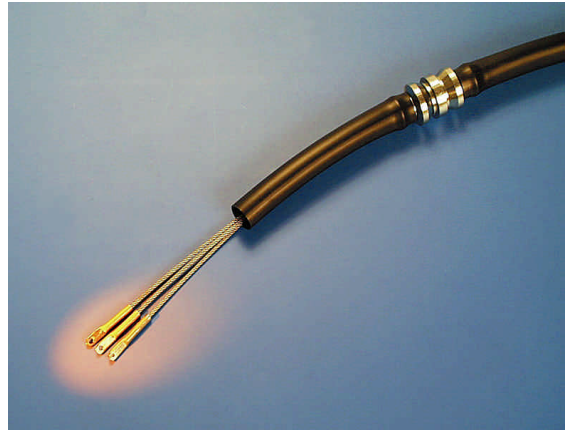
The Geotechnical Systems Australia Pty Ltd [Wire Extensometer](#) monitors the displacement between ground level and fixed anchor locations within a grouted borehole. It is capable of sustaining larger shears than the model 4000 Rod Extensometer.

## APPLICATIONS

- Tunnelling
- Open Cut Mines
- Dam Construction
- Underground Mines
- Large Excavations
- Construction Control

## FEATURES

- Low cost
- Robust
- Easy to install
- Complete instruments are supplied ready for installation
- One to six anchors to suit varying ground conditions
- Compact design, for ease of transport
- Transverse shear accommodation
- The head frame is easy to connect
- The head frame can be used on subsequent boreholes to reduce ongoing costs
- A wide selection of ranges is available from 150mm to 4000mm
- Three options for obtaining data including digital counter, hand held readout and data logger



## OPERATION

The wire extensometer essentially consists of a maximum of six stainless steel wire ropes. One end of each wire is connected to a chrome plated steel anchor, the other is terminated onto a crimped connector. The assembly is sheathed in a poly tube between the anchors. The crimped connectors are in turn connected to the head frame, which contains a maximum of six spring-loaded pulleys. Either a digital counter or a ten-turn potentiometer monitors the movement of these pulleys. The digital counter is read visually and recorded by hand. The potentiometer can be read by a handheld readout or connected directly to a data logger. The handheld readout and datalogger options can be used on a series of locations and the head frames can be reused on later installations.



**Quality  
Endorsed  
Company**

ISO 9002 Lic 4022  
Standards Australia

**GEO**TECHNICAL SYSTEMS AUSTRALIA PTY. LTD.

Specialists in Geotechnical Instrumentation

ACN 006 720 887  
ABN 28 006 720 887



SPECIFICATION	WIRE EXTENSOMETER	Model 4015
<b>Model Number</b>	4015	
<b>Nominal Borehole Diameter</b>	75 mm	
<b>Maximum Borehole Length</b>	150 m	
<b>Anchor Length</b>	50 mm	
<b>Anchor Diameter</b>	40 mm	
<b>Head Assembly Length</b>	300 mm	
<b>Head Assembly Width</b>	300 mm	
<b>Head Assembly Depth</b>	150 mm	
<b>Maximum Number of Sensors</b>	6	
<b>Sensor Ranges</b>	0-150 mm, 0-1 m, 0-2 m, 0-3 m, 0-4 m	
<b>Resolution</b>	0.1 – 4 mm	
<b>Measurement Options</b>	Digital Counter, Handheld Readout, Data Logger	

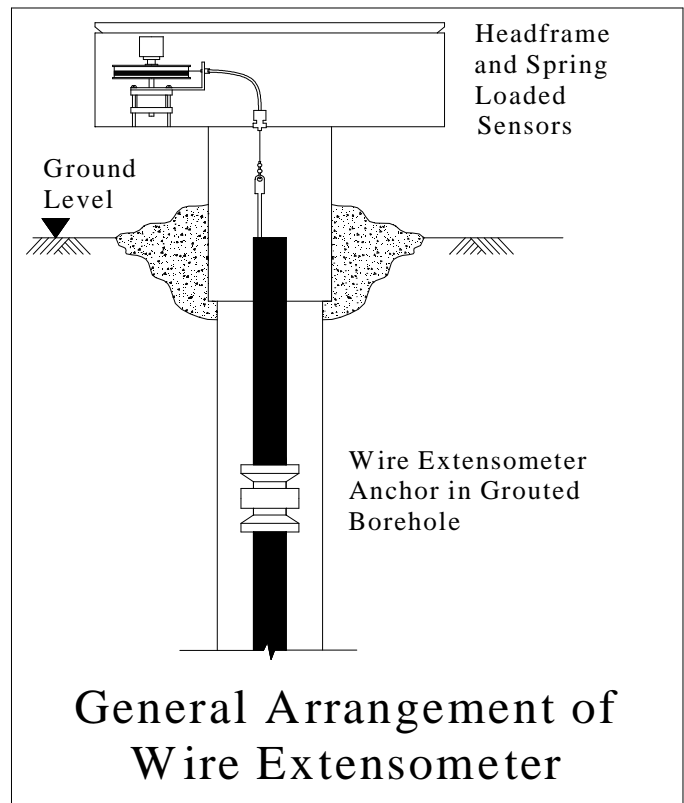
## INSTALLATION

The downhole component is supplied fully assembled in a 1 m diameter coil. At the installation site the assembly is uncoiled, fitted with a grout tube and placed into the borehole. When the assembly is at the correct depth, grout is pumped into the grout tube until the borehole is full. The headframe is then installed above the assembly and initial readings taken. An installation manual is available upon request.

## ORDERING INFORMATION

When ordering, please also specify

- Model Number and Quantity
- Number of Anchors
- Anchor Locations
- Sensor Range
- Measurement Option
- Any Custom Requirements



Because Geotechnical Systems is continually improving its products and processes, information contained herein and drawings is subject to change without notice.

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

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