



Multi Rod Extensometer OG700

Technical Features

Rod extensometers employ a single or multiple anchors grouted inside a drilled hole at various depths. The relative vertical displacement of any anchor is transmitted to the head through stainless steel rods isolated by Pvc sheath. Rod head movement can be detected through a dial depth gauge or an electric displacement transducer (one for each rod). Measurements can be made by portable readout unit or data acquisition system.

Applications

Rod extensometers (single rod or up to 6 rods) are suitable for monitoring absolute or differential movements in rock masses and soil.

They are employed in:

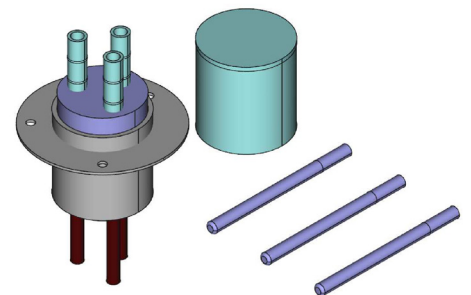
- Tunnels
- Landslides
- Dams
- Mining excavations
- Underground openings
- Cut slope and trenches
- Foundations

Use

- Monitoring ground movements due to tunnels or underground opening
- Foundation settlements monitoring
- Retaining walls displacements monitoring

Related Instrumentation

- Transducers OG400
- Manual readout unit OG180, Geotester 3.0
- Data logger D200-D800-D1600-D3200
- OtrMonitoring web site



Technical Specifications

		
Model	OG700-1	OG700-3
Anchors	1	3 ... 6
Installation	Any	Any
Rod material	Stainless Steel / Fiber-glass	Stainless Steel / Fiber-glass
Rod diameter	8 mm AISI304 o 7 mm Fibra	8 mm AISI304 o 7 mm Fibra
Rod sleeve	PVC	PVC
Reference head material	Stainless Steel/Aluminium	Stainless Steel/Aluminium
Anchorage	Galvanized Steel	Galvanized Steel
Displacement transducer	Range: 0..25, 50, 100 mm	Range: 0..25, 50, 100 mm
Resolution	4-20 mA – VW 0.01 mm	4-20 mA – VW 0.01 mm
Accuracy	0.3% f.s.	0.3% f.s.

Codes & Part Numbers

P/N 2016061
 P/N 2016062
 P/N 2016063
 P/N 2016064
 P/N 2016065
 P/N 2016066
 P/N 2016067
 P/N 2016068
 P/N 2016069
 P/N 2016070
 P/N 2016071
 P/N 2015200
 P/N 2013035
 P/N 2013036
 P/N 2013062

OG700-1 Single point Rod Extensometer, head and bottom anchor
 OG700-2 Two Points Rod extensometer
 OG700-3 Three Points Rod Extensometer, head and bottom anchor
 OG700-4 Four Points Rod Extensometer, head and bottom anchor
 OG700-5 Five Points Rod Extensometer, head and bottom anchor
 OG700-6 Six Points Rod Extensometer, head and bottom anchor
 Aluminum protective cover for manual reading (short)
 Aluminum protective cover for automatic reading (long)
 Stainless steel rods Ø 8 mm and sheaths
 Fiberglass rods Ø 7 mm and sheaths
 Dummy transducers and threaded bar for rod locking
 Digital centesimal comparator 50 mm + extension 40 mm
 Position transducer FS 50 mm IP67 with anti-rotation pin, pot.
 Position transducer FS 100 mm IP67 with anti-rotation pin, pot.
 4-20 mA Converter for potentiometers, aluminum IP66 box