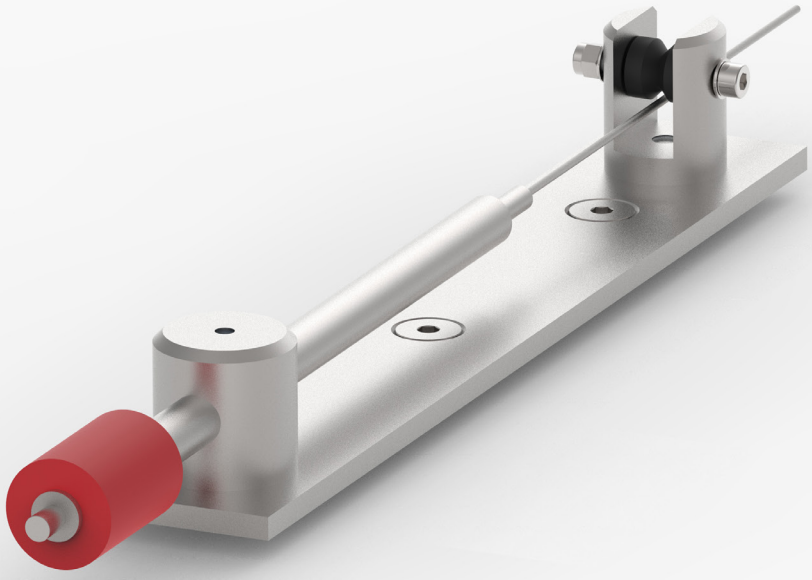
DATASHEET

GEO-DW300 Wire Extensometer

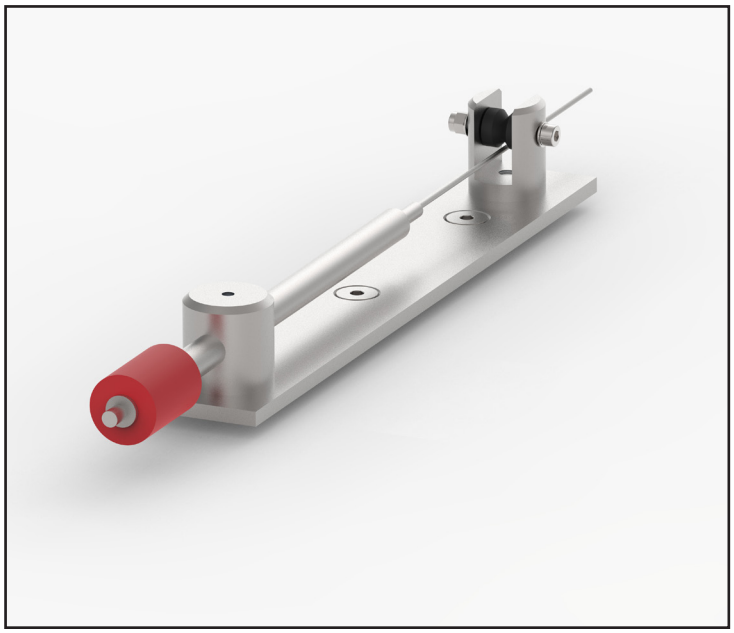
The GEO-DW300 Wire Extensometer is designed to monitor the changes in distance between two anchor points and is complete with vibrating wire transducer



GEOSENSE

GEO-DW300 Wire Extensometer

Overview



The GEO-DW300 Wire Extensometer is designed to monitor the changes in distance between two anchor points and is complete with vibrating wire displacement transducer. A stainless steel wire connects the transducer to the opposing anchor.

The mounting plate holds the transducer at one end and a pulley at the other end. A stainless steel wire connects the transducer to the opposing anchor. The pulley allows the transducer and anchor to be mounted on different planes, including perpendicular surfaces, up to 10m apart. The spring-loaded transducer keeps the steel wire tensioned.

Typical applications include monitoring cracks or displacements in civil structures.

APPLICATIONS

For monitoring displacements and convergence in:

- Structural joints
- Landslides
- Rock movements
- Walls

FEATURES

- Displacement range up to 100mm
- Wire extendable up to 10 metres
- Simple to install
- VW output
- Rugged construction
- Compatible with WI-SOS 480 wireless system

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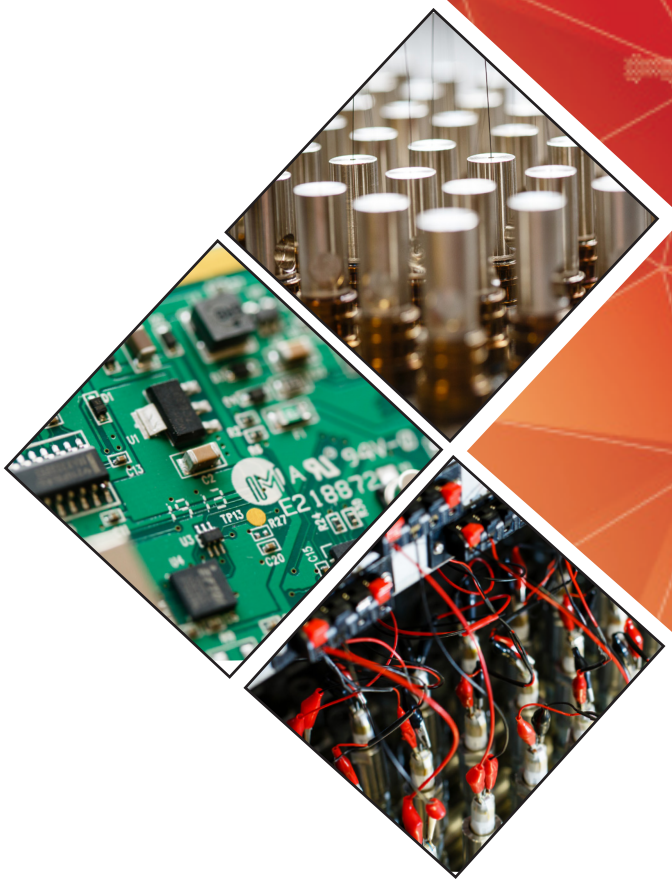
GEO-DW300 Wire Extensometer

Specifications

	GEO-DW301	GEO-DW302	GEO-DW303	GEO-DW304
Range	25 mm	50 mm	75 mm	100mm
PERFORMANCE				
Resolution	<0.025% FS			
Accuracy	±0.1% FS			
Nonlinearity	<0.5% FS			
ELECTRICAL				
Frequency range	1650-2700 Hz			
Nominal zero value	1850 Hz			
MECHANICAL				
Operating temperature range	-20 °C to +80°C			
Body & plate material	Stainless steel			
Inner rod	Stainless steel			
O-ring	Viton			
Wire	Stainless Steel, Ø 1 mm, linear thermal expansion 12.5 x 10 - 6 / °C /m			
Waterproof rating	IP68 (16 bar)			
Cable	2 pair PUR sheath			
Cable Type	Type 900 - VW Sensor with Foil Screen & Drain Wire			
ORDERING INFORMATION				
Range				
Anchor type				
Readout type				



GEOSENSE

HEAD OFFICE

Nova House
Rougham Industrial Estate
Rougham, Bury St Edmunds
Suffolk IP30 9ND
England

+44 (0)1359 270457
sales@geosense.com
support@geosense.com

NORTH AMERICA OFFICE

15 West 38th Street
Suite 632
New York
NY 10018

+1 518-920-3483
sales@geosense.com
support@geosense.com

www.geosense.com

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