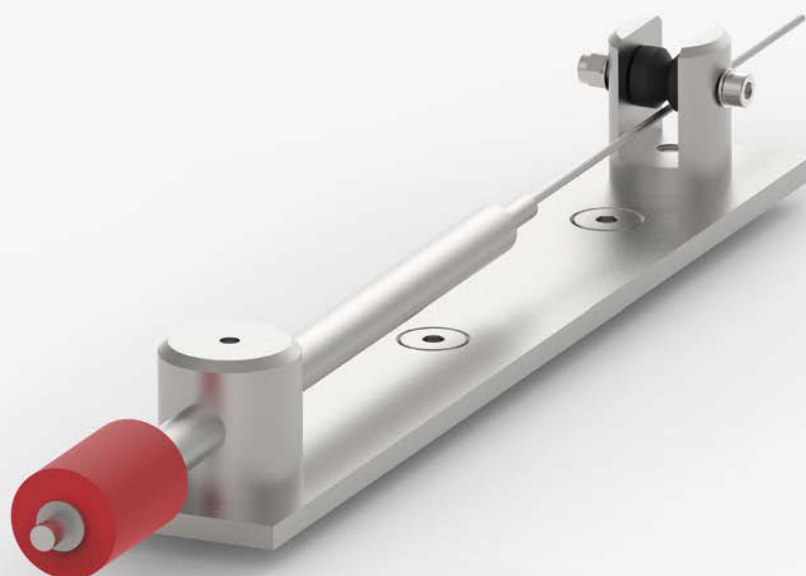


GEO-DW300 Wire Deformometer

The GEO-DW300 Wire Deformometer is designed to monitor the changes in distance between two anchor points and is available with either vibrating wire or potentiometer transducers



GEO-DW300 Wire Deformometer

Overview



The GEO-DW300 Wire Deformometer is designed to monitor the changes in distance between two anchor points and is available with either vibrating wire or potentiometer transducers. 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 50mm

Wire extendable up to 10 metres

Simple to install

VW output

4-20mA output

Rugged construction

Compatible with WI-SOS 480 wireless system



GEO-DW300 Wire Deformeter

Specifications

	GEO-DW301	GEO-DW302	GEO-DW303	GEO-DW304
Range	25 mm	50 mm	25 mm	50 mm
Technology	vibrating wire transducer with thermistor		linear potentiometer	
Total Accuracy *	< ±0.50% FS	< ±0.30% FS	< ±0.30% FS	< ±0.20% FS
Signal output	frequency (VW), ohm (T)		4-20 mA current loop	
Power supply	–	–	12-24 V DC	12-24 V DC
Operating temperature	- 20°C to +80°C	- 20°C to +80°C	- 20°C to +60°C	- 20°C to +60°C
Material and protection	Stainless Steel, IP68 up to 1.0 MPa			
Wire	Stainless Steel, Ø 1 mm, linear thermal expansion $12.5 \times 10^{-6} / ^\circ\text{C} / \text{m}$			

* Including linearity, hysteresis and repeatability



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