

FIBERGLASS ROD TECHNICAL FEATURES

- ✓ Material: fiberglass reinforced plastic;
- ✓ Diameter: 7 mm;
- ✓ Thermal dilation coefficient: 5×10^{-6} mm/°C;
- ✓ Protective jacket: polyethylene 12 mm diameter.

STAINLESS STEEL ROD TECHNICAL FEATURES

- ✓ Material: stainless steel;
- ✓ Diameter: 8 mm;
- ✓ Thermal dilation coefficient: 1.7×10^{-5} mm/°C;
- ✓ Protective jacket: PVC tube, 1/2" diameter.

ANCHORING DEPTH TECHNICAL FEATURES

- ✓ Diameter: 16 mm;
- ✓ Length: 400 mm;
- ✓ Material: galvanized steel with improved bond.



Potentiometric displacement transducer



Vibrating wire displacement transducer

CE product compliant with European directives



The multipoint rod extensometer consists of one or more rods in fiberglass or steel with anchoring point at one end. Anchoring is made up of a plate in improved bond stainless steel fastened at depth inside the borehole that sends the movement to the surface at the head level by free sliding of fiberglass or steel rods housed inside a polyethylene protective sheath. The displacement can be measured with a simple caliper, or by linear displacement electrical transducers, which can be operated remotely. The transducers may be potentiometers or vibrating wire and can have various full scale ranges (25-50-100-150-200 mm). This instrument can measure

displacements at various depths along the axis of the borehole inlet. There can be up to 7 reference bases within the same borehole.

The multipoint extensometer is widely used to check failures of foundation structures, of pillars and overpasses, to measure the area of deformation in tunnels, to monitor subsidence caused by caving embankments or tunnel excavation.

HEAD TECHNICAL FEATURES

measuring bases	head diameter (mm)	measuring bases overall diameter (mm)	borehole minimum diameter (mm)
1-2-3-4	160/114	80	101
05/06/2007	160/114	90	110

TECHNICAL FEATURES OF THE DISPLACEMENT TRANSDUCER

		full scale (mm)	25, 50, 100, 150, 200
Potentiometric displacement transducer	accuracy	+/- 0.1% F.S.	
	resolution	virtually infinite	
	temperature range	from -30 to +100°C	
	power supply VDC	12 60	
	Output signal	mV/V	
	Protection level	IP 67	
	diameter mm	18	
Vibrating wire displacement transducer	material	stainless steel	
	full scale (mm)	25, 50, 100, 150, 200.	
	accuracy	+/- 0.1% F.S.	
	resolution	+/- 0.025% F.S.	
	temperature range	from -20 to +80°C	
	Output signal	Hz	
	Protection level	IP 67	
diameter mm	12		
material	stainless steel		