

DISPLACEMENT TRANSDUCERS

Description

The displacement transducers are commonly used to run on automatically and continuously the measurements of borehole rod extensometers.

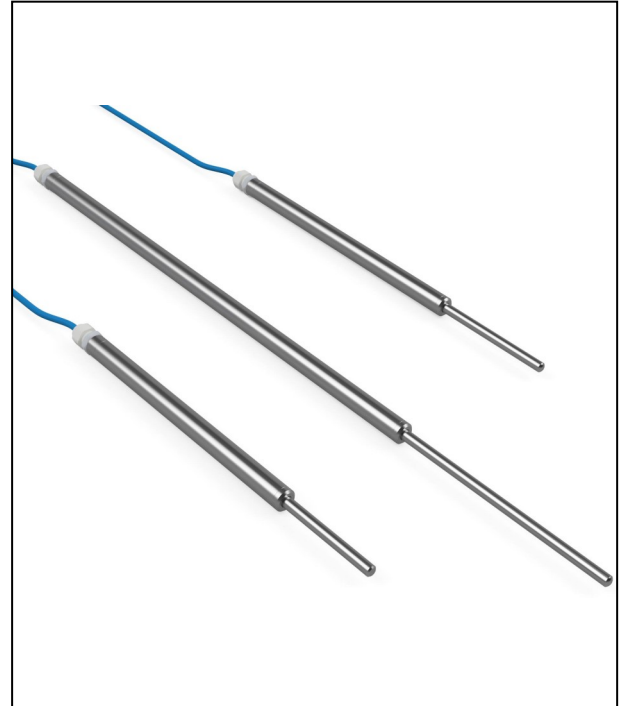
It is necessary to install one displacement transducer for each point of measure in order to transform the mechanical movement of the rod into an electrical signal.

They are entirely made of stainless steel and are equipped with suitable fittings for a proper installation on the head of strain gauges. They are also available in a variety of ranges.

Generally, the electric cables of the single transducers are wired in a single multipolar cable that comes out of the protective cover and reaches the centralization panel or the automatic acquisition system.

Applications

- For the automatic measure of borehole rod extensometers
- For the measurement of vertical deformations during load tests on poles
- Joint measurements



Features

- Reliability also for extended monitoring over time
- Good resolution and accuracy
- Protection class IP65
- Compact and robust stainless steel construction

Technical specifications

	TSP-050	TSP-150
Type of sensor	linear potentiometer	linear potentiometer
Range	50 mm	150 mm
Linearity	+/- 0,1% F.S.	+/- 0,1% F.S.
Resolution	dependent on the reading system	dependent on the reading system
Repeatability	0,01 mm	0,01 mm
Output signal	voltage, 4-20 mA	voltage, 4-20 mA
Protection class	IP65	IP65
Power supply	< 40 Volt	< 40 Volt
Operating temperature	-20.....+80 °C	-20.....+80 °C
Maximum applicable current	< 10 mA	< 10 mA
Diameter	16 mm	16 mm
Material	Stainless steel	Stainless steel

Accessories and spare parts

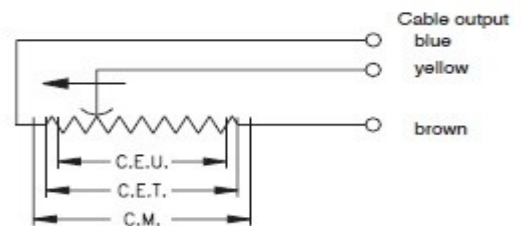
- Connection for fixing to the head of borehole rod extensometers
- Signal cable



Please specify

CODE	PRODUCT DESCRIPTION
TSP-050	Displacement transducer, output voltage, FS 50 mm
TSP-150	Displacement transducer, output voltage, FS 150 mm
TSP-205	Displacement transducer, output 4-20 mA, FS 50 m
TSP-215	Displacement transducer, output 4-20 mA, FS 150 m
TSP-616	Fitting for the head of borehole rod extensometer

INSTALLATION WARNINGS



- Respect the indicated electrical connections (DO NOT use the transducer as a variable resistance)
- When calibrating the transducer, be careful to set the stroke so that the output does not drop below 1% or rise beyond 99% of the supply voltage.

For further information:

Gestecno s.r.l.

Loc. Lanciano, 22 - 62022 Castelraimondo (MC) - Italy
 Tel/fax: (+39) 0737.642174 - P. IVA 01137480438
 e-mail: info@gestecno.it - WEB: www.gestecno.it