SOLEXPERTS

Swiss Precision Geomonitoring

Electrical Displacement Transducer

High pressure watertight casing (up to 15 bar) made of hardened stainless steel. Displacement transducer can be used under water

Potentiometric sensor with measuring range 25, 50, 100 or 250 mm.
- Accuracy < ± 0.02 mm
- Linearity < 0.02% FS
- Option: inductive displacement transducer

Option: with integrated amplifier for large lengths of measuring cable over 200 m (measurement output signal 4–20 mA)

Connecting PE-sheathed watertight cable with plug

Applications

- Where deformations and displacements have to be measured continuously and automatically and where the measuring positions cannot, or only with difficulty, be reached (e.g. for high retaining walls, rock slopes, measuring places subject to flooding).
- Combined with a borehole extensometer (e.g. the Solexperts Modular Extensometer) deformations, displacements, settlements or heaves can be measured along one or more measuring sections.
- To measure movements in one, two or three directions of joints, cracks or bearings (e.g. the movement of the bearings of bridges).
- With surface extensometers to measure the displacements of retaining walls, slides, bridge supports, etc.

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Reading Instrument

The displacement transducers can be used with a handy digital reading instrument. The battery-operated reading instrument has a 4 lines of 16 characters per line with backlight display.

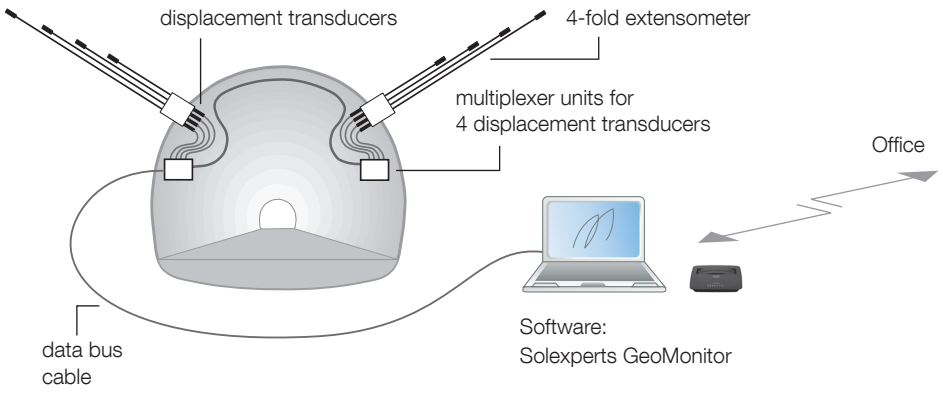
Solexperts Data Logger

Stand-alone battery powered Data-Logger with connection for 6 displacement transducers. Solexperts Data Logger has memory for 16000 measurement values and can work autonomously for many months.
The data transfer to PC is done with SDL-Tool Software through data cable or wireless modem.

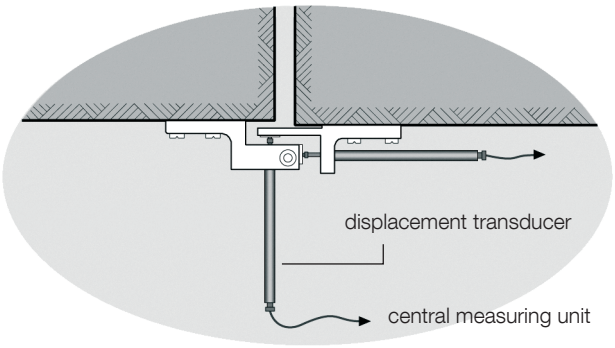
Solexperts GeoMonitor

As a part of the Solexperts GeoMonitor (see separate leaflet) the displacement transducer is combined with external multiplexers and connected by a data bus cable.
A special software application controls the automatic data acquisition and allows remote monitoring with continuous data transmission and being on permanent alert by means of a modem.

Applications: Extensometer



Application: Joint displacement measuring device



Technical data

- Range of measurement: 25, 50, 100, or 250 mm
- Accuracy: < +/- 0.02 mm
- Linearity: < 0.2% FS
- Watertightness: tup to 15 bar
- Ø external: 16 mm

Subject to technical changes

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