

TECHNICAL FEATURES OF THE ELECTRICAL PRESSURE TRANSDUCER

- ✓ Type of sensor: piezoelectric;
- ✓ Measuring range: 6-10-20 MPa;
- ✓ Output signal: 4-20 mA;
- ✓ Pressure overload: 2x F.S.;
- ✓ Power supply: 8-28 VDC;
- ✓ Accuracy: +/- 0.1% F.S.;
- ✓ Non-linearity: +/- 0.1% F.S.;
- ✓ Thermal drift: 0.04% F.S./°C
- ✓ Long term stability: 0.1% F.S./year;
- ✓ Operating temperature: from -40 to 125 °C;
- ✓ Protection level: IP 68.

TECHNICAL FEATURES OF THE VIBRATING WIRE PRESSURE TRANSDUCER

- ✓ Type of sensor: vibrating wire;
- ✓ Measuring range: 2.1 - 3.4 - 5.2 MPa;
- ✓ Output signal: Hz;
- ✓ Range of operation: from 2200 to 3500 Hz;
- ✓ Pressure overload: 2x F.S.;
- ✓ Power supply: 8-28 VDC;
- ✓ Accuracy: +/- 0.1% F.S.;
- ✓ Non-linearity: <0.5% F.S.;
- ✓ Thermal drift: 0.05% F.S./°C
- ✓ Operating temperature: from -20 to 80 °C;
- ✓ Protection level: IP 68;



The pressure cell consists of 2 rectangular or square steel plates internally separated by a small cavity filled with special de-aired oil. The cell is used to check radial and tangential pressure in tunnel linings, to monitor the pressure in foundations, dams and overpasses. It can also be used to measure pressure exerted in underground works or the pressure existing between a retaining structure and a rock.

plate is no longer in contact with the surface whose pressure read out is needed.

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It can also be used to measure pressure exerted in underground works or the pressure existing between a retaining structure and a rock.

The device comes with the transducer directly connected to the cell's plate via a valve and a rilsan tube that provide re-pressurization through a special pump. Re-pressurization is needed when the



rectangular pressure cell for drilling sites.

We reserve the right to carry out modifications to our products and their specifications

CE product compliant with European directives

DIMENSIONS		
plate dimension	shape	material
150x250	rectangular	stainless steel
150x150	square	stainless steel
200x50	rectangular	stainless steel