

TECHNICAL FEATURES

- ✓ Full scale: from 69 kPa to 2068 kPa;
- ✓ Overload: 2x F.S.;
- ✓ Precision: +/- 0.1% F.S.;
- ✓ Resolution: 0,025% F.S.;
- ✓ Non linearity: <0,5% F.S.;
- ✓ Operating temperature: from -20 to 80° C;
- ✓ Output signal: Hz;
- ✓ Range: from 2200 to 3500 Hz;
- ✓ Zero nominal value: 3130 Hz;
- ✓ Thermistor: 3 KΩ at 25°C;
- ✓ Thermal drift: 0.05% F.S./°C;
- ✓ Material: stainless steel;
- ✓ Pressure overload protection: 90V surge arrester with gas tube.



drive-in piezometer

CE product compliant with European directives



The vibrating wire piezometer is widely used to measure pore water pressure in the soil and in rocks as well as groundwater.

This extremely sturdy and long-lasting sensor comprises of a stainless steel cylinder that houses a vibrating wire transducer for either relative or absolute pressure, a hydraulic chamber and a filter either in stainless steel or sintered.

The pressure exercised by the water on the transducer strains the metal diaphragm. One end of the vibrating wire is fasted onto the diaphragm, which vibrates at a frequency proportional to the pressure exercised on it. The resulting change in vibration (Hz) can be measured by specific reading control units.

The sensor frequency output signal is not altered by the length of the wire or by external electrical interference. It is also particularly resistant to the presence of moist on the readout units.

To measure the thermal variations, the pressure transducer is provided with an integrated NTC 3 KΩ thermistor to handle possible thermal drift.

Available in the drive-in version for installation in soft, fine-grained soils using penetrometric test rods, directly from the ground surface or from the end of a perforation.

DIMENSIONS

69-173 kPa

30x150 mm

all other ranges

24x170 mm, 30x220 mm (drive-in)