

TECHNICAL FEATURES

- ✓ Type of sensor: piezoelectric;
- ✓ Full scale: from 0.07 to 20 bar vented or no vented;
- ✓ Pressure overload: 2x F.S.;
- ✓ Power supply: 8-28 V DC;
- ✓ Output signal: 4-20 mA;
- ✓ Non linearity: +/- 0.1% F.S.;
- ✓ Ripetibilità: +/-0.01% F.S.;
- ✓ Total thermal error: <0.04% / °C;
- ✓ Long term stability: 0.1 % F.S./1 year;
- ✓ Insulation: >100 MΩ;
- ✓ Operating temperature: -40/+125 °C;
- ✓ Protection level: IP68;
- ✓ Material: stainless steel.



drive-in piezometer



piezometer for Casagrande cell

The electric piezometer measures groundwater level or pore pressures and is installed inside Casagrande-type cells, in open piezometric tubes, in wells or directly in drillings.

It consists of a cylindrical stainless steel casing, a pressure transducer and a stainless or sintered steel filter. The water entered through the filter acts on a metal diaphragm to which a Wheatstone bridge strain gauge is fastened. The strain borne by the extensometer bridge is measured in terms of change in resistance that is transformed by an external converter into an electric signal. This signal is easily acquired by the read units.

These transducers can be divided into:

-vented, the metal diaphragm is put in communication with the atmosphere through a connecting tube. This

prevents water level measurements from being affected by fluctuations in atmospheric pressure;

-no vented, variations in atmospheric pressure are not compensated.

These sensors are then inserted directly into the perforations, for the direct measurement of the interstitial pressures.

To monitor the variations in groundwater temperature, the piezometric sensor can be equipped with an NTC or PT100 temperature sensor.

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

Dimensions (mm)	24 x 175, 30x220 mm (drive-in)
Weight (g)	350

CE prodotto conforme alle direttive Europee

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