



Corrosion Resistant Piezometer (Vibrating Wire) VWP-3700 Series

Designed for measuring pore water pressure in harsh environments such as marine, tailings and mine leach heap applications.

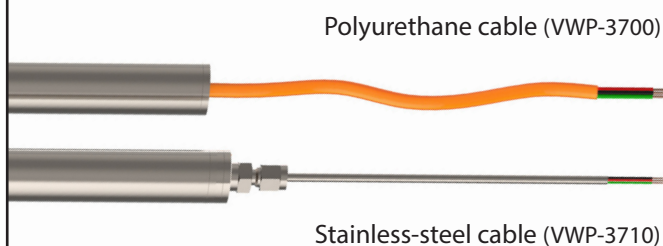


VWP-3700 Series

Overview



Choice of cables



Geosense® VWP-3700 Series of Vibrating Wire piezometers are designed for measuring pore water pressure in harsh environments such as marine, tailings and mine leach heap applications.

Built on the same technology as our standard vibrating wire piezometer the external casings and most importantly the wetted surfaces are made from corrosion resistant titanium.

The measuring principle is the same as standard vibrating wire sensors and uses the well-proven method of converting fluid pressures on a sensitive diaphragm into a frequency signal.

Frequency signals are particularly suitable for the demanding environment of Civil Engineering applications, since the signals are capable of long transmission distances without degradation, tolerant of wet wiring conditions and resistant to external electrical noise.

Options of both Polyurethane and Stainless-steel cables gives flexibility depending on the application.

APPLICATIONS

Mine Tailings

Leach Pads

Marine Environments

Landfills

FEATURES

Titanium construction (including wetted surfaces)

Enhanced double seal

Reliable long-term performance

Rugged, suitable for demanding corrosive environments

High accuracy

Insensitive to long cable lengths

FILTER OPTIONS

LAE (Low resistance to air entry) 50µ sintered Titanium

CABLE TYPE

Type 900 VW Sensor with Foil Screen & Drain Wire (VWP-3700)

4mm Incoloy 825 (VWP-3710)

VWP-3700 Series

Specifications

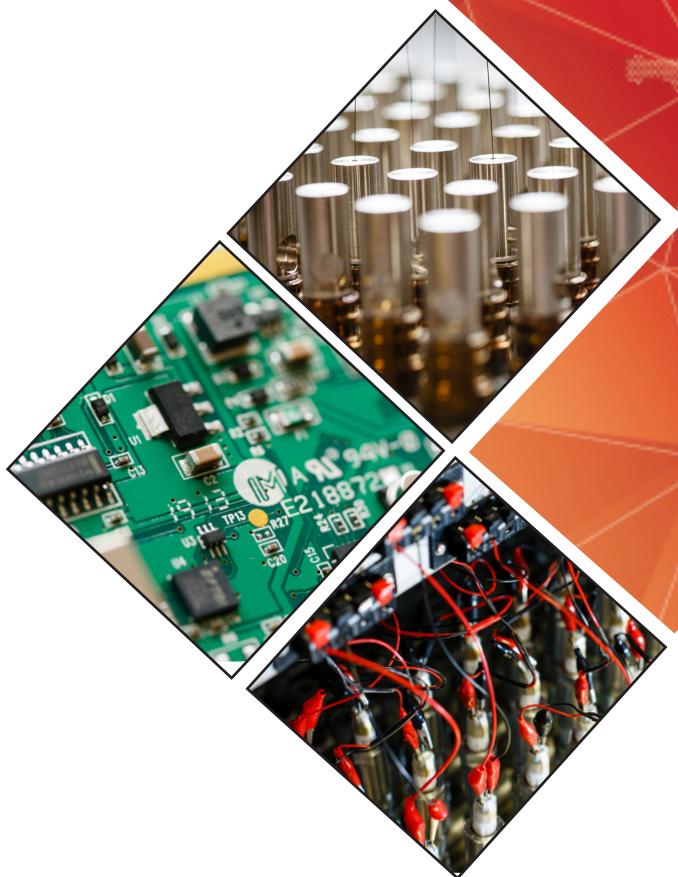


SENSOR

Pressure range	345, 518, 690 kPa 1, 2, 3.5, 5, 7 MPa
Over Range Pressure ¹	1.5x
Resolution	0.025% FS
Accuracy	± 0.1% FS
Non-Linearity	<0.5% FS
Frequency Range	1850 – 3500 Hz
Operating Temperature Range	-20 to + 80 °C
Thermal Effect	<0.4% FS/°C
Diameter x Length	176 x 25mm
Weight	240g
Material	Titanium
Over Voltage Protection	90V Gas Plasma Arrester
Thermistor Type ²	3K
Thermistor Accuracy	0.2°C

CABLE

Type 900 VW Sensor with Foil Screen & Drain Wire (VWP-3700)
4mm Incoloy 825 (VWP-3710)



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