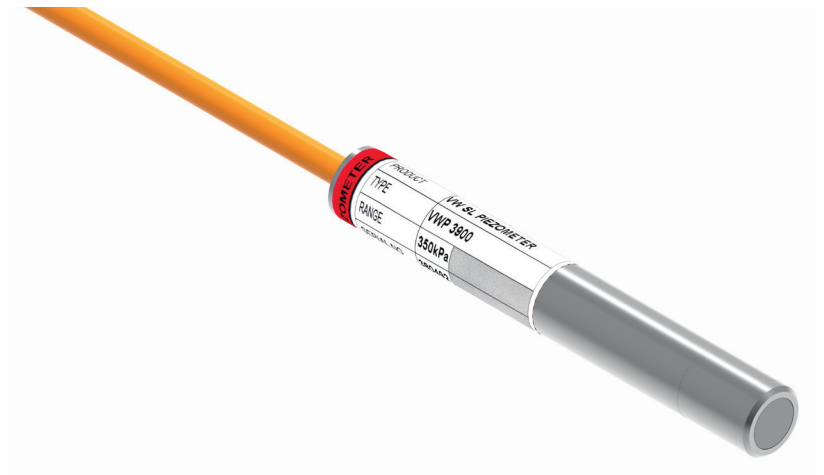


Small Diameter Piezometer, VWP-3900 Series

Designed for pore water pressure and water level monitoring where projects require a smaller diameter, such as automating existing standpipe piezometers.



VWP-3900 Series

Overview



The Geosense VWP-3900 series of small diameter vibrating wire piezometers provides all of the benefits vibrating wire technology but in a smaller housing.

Measuring just 17.5mm diameter it has been specifically developed for use in existing 19mm standpipes. At only 130mm in length it also allows it to navigate any historic movement or bending of the casing. One of the shortest on the market.

Whether you are retrofitting an existing standpipe or have other space constraints, the VWP3900 series utilises proven vibrating wire technology, built using our proprietary GeoSwage manufacturing process.

Available in a range of pressures and both sealed or vented options allows the right sensor to be selected for your application.

As with all vibrating wire sensors, the frequency based output ensure long term, accurate and dependable data and is ideally suited for the demanding conditions encountered in civil engineering and geotechnical projects.

Constructed using all of the same materials as our standard vibrating wire piezometers ensures long term performance.

APPLICATIONS

- Pore water pressure monitoring in soils and rocks
- Small diameter boreholes
- Automated standpipe piezometers
- Standpipe Piezometer retrofit
- Hydrofracture and pump testing

FEATURES

- Slimline 17.5 mm diameter design for small-diameter installations
- Ideal for piezometer standpipes and retrofits
- Reliable long-term performance
- High accuracy pressure measurement
- Stable signal transmission over long cable lengths
- Resistant to electrical noise and interference
- Suitable for demanding environments

FILTER OPTIONS

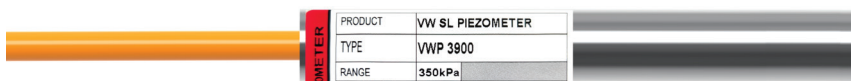
- LAE (Low resistance to air entry) 50µ sintered stainless steel, Vyon®

CABLE TYPE

- Type 900 VW Sensor with Foil Screen & Drain Wire
- Type 920 Vented with Drain Wire

VWP-3900 Series

Models



VWP-3900 (SMALL DIAMETER)

The small diameter piezometer is the first model in the VWP-3900 series. Its slimline design and low air-entry filter provide accurate and reliable pressure measurements in piezometer standpipes.

Specifications

PRESSURE RANGE	350, 700 kPa 1, 2, 3 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
CALIBRATED TEMPERATURE RANGE	-20°C to +80°C

THERMAL EFFECT	<0.05% FS/°C
DIAMETER X LENGTH	130 x 17.5mm
WEIGHT	118g
MATERIAL	Stainless Steel 316
OVER VOLTAGE PROTECTION	90V Gas Plasma Arrester
THERMISTOR TYPE ²	3K
THERMISTOR ACCURACY	0.2°C

¹ The maximum pressure that may be applied continuously without causing damage and maintaining set point repeatability.

² ± 0.1% FS available on request.

Ordering Information

When placing an order, please provide details on:

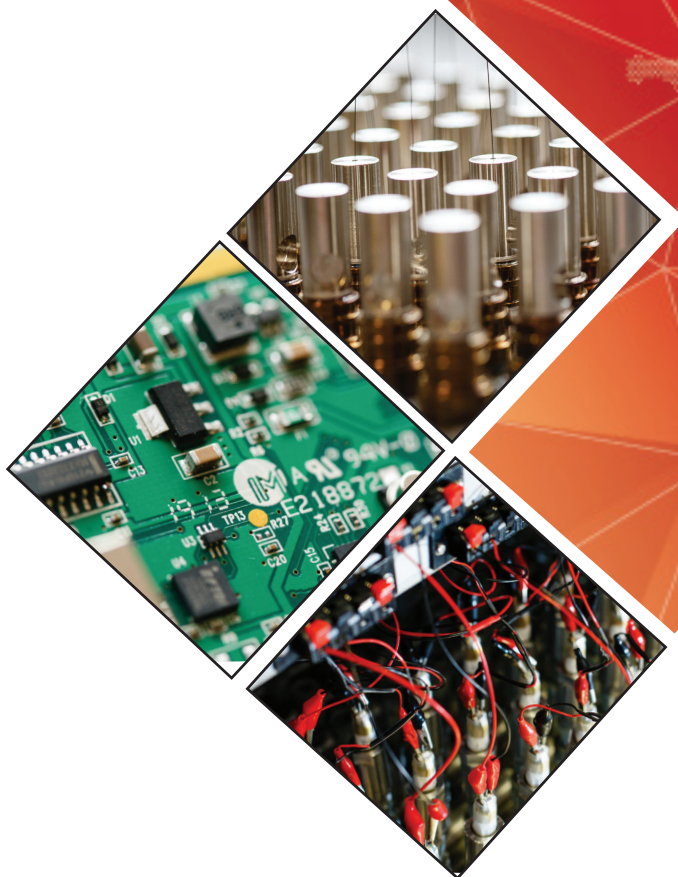
Model Type

Cable Length

Pressure Range

Cable Type





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