

VW Piezometers

VWP-3000 SERIES



VWP-3000 (STANDARD)

Standard construction with high & low air entry filters to measure groundwater elevations and pore pressures.

VWP-3310 (STANDARD VENTED)

Standard construction but vented to compensate for barometric pressure changes. Available with high & low air entry filters.

VWP-3100 (HEAVY DUTY)

Heavy duty body for direct burial in fills and dam embankments. Available with high & low air entry filters, standard and heavy duty cable.

VWP-3200 (LOW PRESSURE)

Low pressure version to measure groundwater elevations and pore pressures. Available with high & low air entry filters.

VWP-3300 (LOW PRESSURE VENTED)

A low pressure vented version to compensate for barometric pressure changes. Available with high & low air entry filters.

VWP-3400 (DRIVE-IN)

Drive-in version available for use with SPT rods or 1" BSPF adaptor.

VWP-3000/3310



VWP-3100



VWP-3200/3300



VWP-3400



Geosense® VWP-3000 Series of Vibrating Wire piezometers use 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.

Applications

- ~ Pore pressure measurement in soils and rocks
- ~ Fluid pressures in hydro-fracture and pump tests

Features

- ~ Reliable long-term performance
- ~ Rugged, suitable for demanding environments
- ~ High accuracy
- ~ Insensitive to long cable lengths
- ~ All non drive-in models can have threaded adaptors to customer specifications

Filter Options

- ~ LAE (Low resistance to air entry)
50µ 316 sintered stainless steel
- ~ HAE (High resistance to air entry)
2µ alumo silicate ceramic - 1 bar



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VWP-3000 SERIES

Specifications

TYPE	DESCRIPTION	PRESSURE RANGE KPA	OVER RANGE	RESOLUTION	ACCURACY	NON-LINEARITY	TEMP RANGE	THERMAL EFFECT	DIAMETER X LENGTH	WEIGHT
VWP-3000	Standard LAE	345, 518, 690, 1034, 2068, 3447	2 x rated pressure	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	20 x 178mm	240g
VWP-3001	Standard HAE	345, 518, 690, 1034, 2068, 3447	2 x rated pressure	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	20 x 178mm	240g
VWP-3310	Standard Vented LAE	345, 518, 690, 1034, 2068, 3447	2 x rated pressure	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	20 x 178mm	240g
VWP-3311	Standard Vented HAE	345, 518, 690, 1034, 2068, 3447	2 x rated pressure	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	20 x 178mm	240g
VWP-3100	Heavy Duty LAE	345, 518, 690, 1034, 2068, 3447, 5171, 6895	2 x rated pressure	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	25 x 182mm	500g
VWP-3101	Heavy Duty HAE	345, 518, 690, 1034, 2068, 3447, 5171, 6895	2 x rated pressure	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	25 x 182mm	500g
VWP-3200	Low Pressure LAE	70, 173	2 x rated pressure	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	32 x 180mm	600g
VWP-3201	Low Pressure HAE	70, 173	2 x rated pressure	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	32 x 180mm	600g
VWP-3300	Low Pressure Vented LAE	70, 173	2 x rated pressure	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	32 x 180mm	600g
VWP-3301	Low Pressure Vented HAE	70, 173	2 x rated pressure	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	32 x 180mm	600g
VWP-3400	Drive-in LAE	345, 518, 690, 1034, 2068, 3447, 5171, 6895	2 x rated pressure	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	28x 226mm	575g

DESCRIPTION

Materials	Stainless Steel
Excitation	Pluck or swept frequency
Over voltage protection	90V gas plasma arrester
Thermistor	3k Ohms @ 25°C
Range	2200-3500 Hz
Nominal zero value	3130 Hz
Thermal effect	0.05% F.S./°C

Specifications may change without prior notice

Ordering Information

- ~ Type
- ~ Cable length
- ~ Pressure Range

