VW Piezometers, VWP-3000 Series

Pore pressure measurement in soils and rocks & fluid pressures in hydro-fracture and pump tests using the well-proven method of converting fluid pressures on a sensitive diaphragm into a frequency signal









VWP-3000 Series

Overview





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 pressur	e measurement in soils and rocks
Fluid pressu	res in hydro-fracture and pump tests
FEATURES	
Reliable long	g-term performance
Rugged, suit	able for demanding environments
High accura	cy
Insensitive to	o long cable lengths
FILTER OPT	IONS
LAE (Low res stainless stee	iistance to air entry) 50μ sintered el, Vyon®
HAE (High re ceramic - 1 8	esistance to air entry) Alumo silicate & 3 bar
CABLE TYP	E
Type 900 VW	/ Sensor with Foil Screen & Drain Wir

Type 920 Vented with Drain Wire

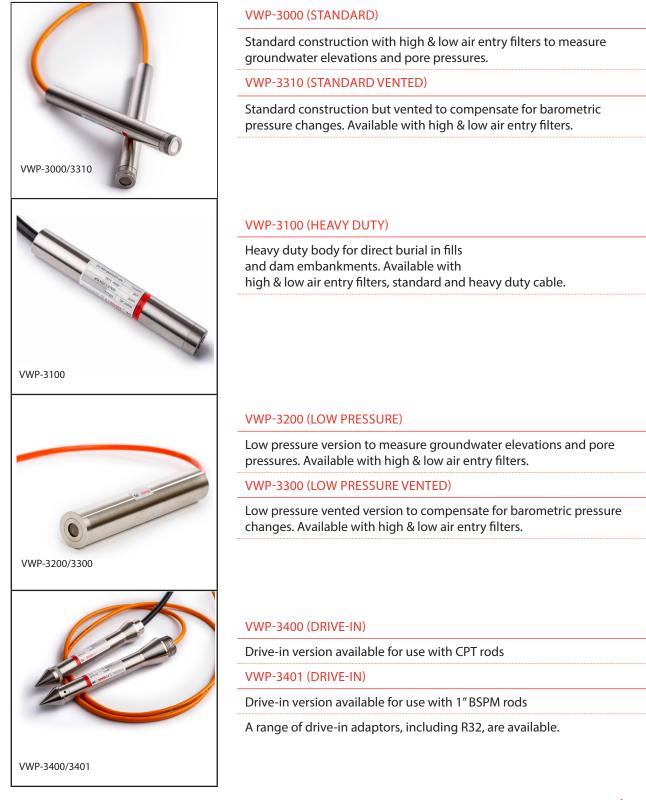
Type 710 Heavy Duty



VWP-3000 Series

Models





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Specifications

ТҮРЕ	DESCRIPTION	PRESSURE RANGE	OVER RANGE PRESSURE ¹	RESOLUTION	ACCURACY	NON LINEARITY ²	CALIB. TEMP RANGE	THERMAL	DIAMETER X LENGTH	WEIGHT
VWP-3000	Standard LAE	345, 518, 690 kPa 1, 2, 3.5 MPa	1.5	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	20 x 165mm	240g
VWP-3001	Standard HAE	345, 518, 690 kPa 1, 2, 3.5 MPa	1.5	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	20 x 165mm	240g
VWP-3310	Standard Vented LAE	345, 518, 690 kPa 1, 2, 3.5 MPa	1.5	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	20 x 165mm	240g
VWP-3311	Standard Vented HAE	345, 518, 690 kPa 1, 2, 3.5 MPa	1.5	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	20 x 165mm	240g
VWP-3100	Heavy Duty LAE	345, 518, 690 kPa 1, 2, 3.5, 5, 7 10, 20 MPa	1.5	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	25 x 170mm	500g
VWP-3101	Heavy Duty HAE	345, 518, 690 kPa 1, 2, 3.5, 5, 7 10, 20 MPa	1.5	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	25 x 170mm	500g
VWP-3200	Low Pressure LAE	70, 173 kPa	1.5	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	32 x 179mm	600g
VWP-3201	Low Pressure HAE	70, 173 kPa	1.5	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	32 x 179mm	600g
VWP-3300	Low Pressure Vented LAE	70, 173 kPa	1.5	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	32 x 179mm	600g
VWP-3301	Low Pressure Vented HAE	70, 173 kPa	1.5	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	32 x 179mm	600g
VWP-3400	Drive-in LAE CPT	345, 518, 690 kPa 1, 2, 3.5 MPa	1.5	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	35 x 220mm	550g
VWP-3401	Drive-in LAE 1″ BSPM	345, 518, 690 kPa 1, 2, 3.5 MPa	1.5	0.025% FS	± 0.1% FS	<0.5% FS	-20 to + 80 °C	<0.05% FS/°C	35 x 238mm	560g

 $^{\rm 1}$ The maximum pressure that may be applied continuously without causing damage and maintaining set point repeatability. $^2\pm0.1\%$ FS available on request.

ALL MODELS

Materials	316 Stainless Steel				
Operating Temp Range	0 to +80°C				
Over Voltage Protection	90V Gas Plasma Arrester				
Thermistor	3k Ohms @ 25°C				
Frequency Range	1850-3500 Hz				

ORDERING INFORMATION		
Туре		
Cable Length		
Pressure Range		
Filter		
Cable Type		
Adaptor Type		





Geosense Ltd, Nova House, Rougham Industrial Estate, Rougham, Bury St Edmunds, Suffolk IP30 9ND, England

www.geosense.co.uk e sales@geosense.co.uk t +44(0)1359 270457

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