
VW Pressure Transducer VWT-9000 Series

VW Pressure Transducers are designed to be connected directly into hydraulic or pneumatic pressure lines



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Overview



APPLICATIONS

- Automating standpipe piezometers
- Dam uplift pressures
- Groundwater & surface water monitoring

FEATURES

- Reliable long-term performance
- Rugged, suitable for demanding environments
- High accuracy
- Insensitive to long cable lengths
- Can be easily automated
- Various thread sizes available

The Geosense® VWT-9000 Series of Pressure Transducers are designed to be connected directly into hydraulic or pneumatic pressure lines by means of a 1/4" BSPF thread. Other thread sizes are available on request.

They are typically used to monitor uplift pressures within dams and to enable manual standpipe piezometers to be upgraded into an automated data acquisition system.

They are accurate, highly-reliable and suitable for use in the harsh environments often found within civil engineering including water wells, boreholes, dams, reservoirs, rivers, tanks or any other body of water.

Vibrating Wire technology is a well-proven method of converting fluid pressures on a sensitive diaphragm into a frequency signal which is capable of long transmission distances without degradation, tolerant of wet wiring conditions and resistant to external electrical noise.



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Specifications

TYPE	DESCRIPTION	PRESSURE RANGE	OVER RANGE PRESSURE ¹	RESOLUTION	ACCURACY	NON LINEARITY ²	CALIB. TEMP RANGE	THERMAL EFFECT	DIAMETER X LENGTH	WEIGHT
VWT-9000	Standard 1/4" BSPF	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	20 x 178mm	240g
VWT-9200	Low Pressure 1/4" BSPF	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

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

² ± 0.1% FS available on request.

ALL MODELS

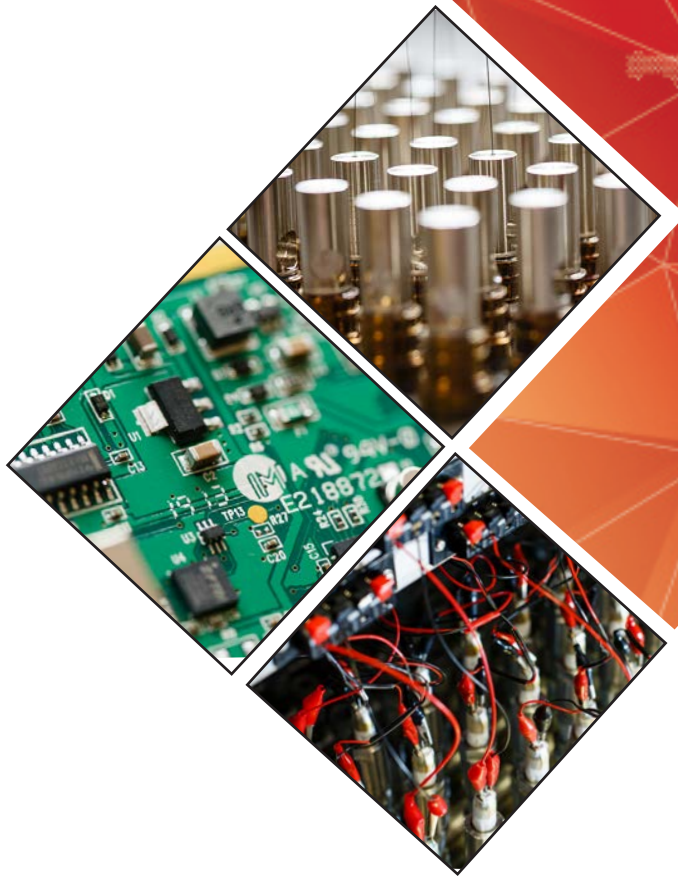
Materials	316 Stainless Steel
Operating Temp Range	0 to +70°C
Over Voltage Protection	90V Gas Plasma Arrester
Thermistor	3k Ohms @ 25°C
Frequency Range	1850-3500 Hz

ORDERING INFORMATION

Type
Cable Length
Pressure Range
Thread Size
Cable Type

CABLE TYPE

Type 900 VW Sensor with Foil Screen & Drain Wire
Type 920 Vented with Drain Wire
Type 710 Heavy Duty



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