

# Pressure Transducers



## Geotech Pressure Transducers

Geotech's submersible pressure transducers are designed for ruggedness and long life to meet the demanding environments encountered in liquid level measurement and control.

### FEATURES

- High static accuracy and repeatability
  - 100% computer tested and calibrated
  - Temperature compensated measurement
  - Signal outputs of 4-20 mA or 1-5 Volt output
  - User specified pressure ranges from...
    - 100-1500 psi (7-100 bar) Sealed Gauge
    - 15-1500 psi (1-100 bar) Absolute
  - All wetted materials are #316 stainless steel
  - Designed to be intrinsically safe
  - Cable is premium quality, proprietary, double-shielded, and polyurethane jacketed (Tefzel® or special purpose PVC cable option available upon request)
  - Sensor has 1/4" NPT process fitting with protective cap
  - Moisture protection – Inline desiccant filled vent filler is standard with all vented gauge units\*
  - Optional Probe Pal noise filter
  - Optional surge suppressor for lightning protection
- \* Inline vent fillers should be replaced a minimum of once a year, more often if needed.

### APPLICATIONS

- Groundwater Monitoring
- Surface Water Monitoring
- Well Monitoring
- Wetland Studies
- Remediation Pump Control
- Landfill Pump Control
- Fluid Level Control



### SPECIFICATIONS

<b>Maximum Ratings:</b>	<b>Supply Voltage</b>	12-36 Volt DC
	<b>Supply Current</b>	25 mA (self limited)
	<b>Output</b>	1-5 Volt DC or 4-20 mA
<b>Performance:</b>	<b>Pressure Ranges (psi)</b>	0-30, 0-50, 0-100, 0-150, 0-200, 0-350, 0-500, 0-1000, 0-1500
	<b>Pressure Ranges (bar)</b>	0-2, 0-3.5, 0-7, 0-10, 0-14, 0-25, 0-35, 0-100 (Custom ranges available)
	<b>Accuracy</b>	±0.1% of full scale
	<b>Non-linearity</b>	.07% of full scale
	<b>Repeatability</b>	0.015% of full scale
	<b>Pressure Hysteresis</b>	0.010% of full scale
	<b>Zero Error</b>	±0.1% of full scale
	<b>Span Error</b>	±0.1% of full scale
	<b>Compensated Temperature Range</b>	-4° to 185°F (-20° to 85°C)
	<b>Operating Temperature Range</b>	-40° to 257°F (-40° to 125°C)
	<b>Response Time</b>	2 milliseconds
	<b>Life</b>	1 million pressure cycles

<b>Physical:</b>	<b>Sensor Length (Includes 2" Strain Relief)</b>	8.2" (20.8 cm) with Surge Suppressor 7.3" (18.5 cm) without Surge Suppressor
	<b>Sensor Diameter</b>	.72" (1.8 cm)
	<b>Sensor Weight</b>	4.2 oz. (120 g)
	<b>Proof Pressure</b>	3x psi
	<b>Burst Pressure</b>	5x psi
	<b>Media Compatibility</b>	Liquids or gases compatible with 316 SS

<b>Cable:</b>	<b>Jacket</b>	Polyurethane
	<b>Diameter</b>	.25" ±.01" (6.35mm ±.25mm)
	<b>Conductors</b>	2-24 AWG 7/32 tinned copper Red – White
	<b>Drain</b>	24 AWG 7/32 tinned copper bare

**Note:** Probe is protected from reverse polarity supply connection.

**CALL GEOTECH TODAY (800) 833-7958**

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