

# Gas Casing Sensor

## Geotech Gas Casing Sensors

Geotech's line of gas pressure sensors are designed for ruggedness and long life to meet the harsh environments encountered in gas pressure measurement and control. Applications include coal bed methane, remediation sites and more!



### FEATURES

- High accuracy and repeatability
- Fully temperature compensated
- All wetted materials are #316 stainless steel
- Designed to be intrinsically safe
- 100% computer tested and calibrated
- Complete range of signal outputs
- Choice of absolute or sealed gauge transducers
- Optional surge suppressor

### SPECIFICATIONS

<b>Maximum Ratings:</b>	<b>Supply Voltage</b>	12-36V DC
	<b>Supply Current</b>	25 mA (self limited)
	<b>Maximum Pressure</b>	0-5, 15, 30, 50, 100, 150 psi absolute, gauge (0-.34, 1, 2, 3.5, 7, 10 bar) 200, 350, 500, 1000 psi sealed gauge (14, 25, 35, 70, 100 bar)
	<b>Loop Resistance</b>	0-400 Ω
	<b>Isolation, Loop to Earth Ground</b>	500V AC peak, Volt DC

<b>Performance:</b>	<b>Output</b>	4-20 mA
	<b>Accuracy</b>	0.25% of full scale 0.1% of full scale available
	<b>Non-Linearity</b>	.07% of full scale
	<b>Zero Error</b>	±0.1% full scale
	<b>Span Error</b>	±0.1% of full scale
	<b>Compensated Temp. Range</b>	-4° to 185°F (-20° to 85°C)
	<b>Operating Temp. Range</b>	-40° to 257°F (-40° to 125°C)
	<b>Long Term Stability</b>	±0.3% of span over 6 months
	<b>Response Time</b>	≤2 milliseconds

<b>Environmental:</b>	<b>Position Effect</b>	0.10% of span for 90° rotation
	<b>Vibration</b>	No change after 10G RMS 20 to 2000 Hz
	<b>Shock</b>	No change after 100Gs for 11 m
	<b>Life</b>	1 million pressure cycles

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

<b>Cable:</b>	<b>Jacket</b>	PVC blend
	<b>Diameter</b>	.375" ±.015" (9.5mm ±.38mm)
	<b>Conductors</b>	2-18 AWG 16/30 tinned copper Red - White
	<b>Drain</b>	24 AWG 16/30 tinned copper bare

#### Notes:

- Probe is protected from reverse polarity supply connection.
- Vented gauge sensors also available.

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

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