

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!



Gas Casing Sensor

Gas Casing Sensor with optional Surge Suppressor

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 Probe Pal noise filter
- Optional surge suppressor

SPECIFICATIONS

Maximum Ratings:	Supply Voltage	12-36V DC
	Supply Current	25 mA (self limited)
	Maximum Pressure	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)
	Loop Resistance	0-400 Ω
	Isolation, Loop to Earth Ground	500V AC peak, Volt DC

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

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

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

Cable:	Jacket	PVC blend
	Diameter	.375" ± 0.015 " (9.5mm ± 0.38 mm)
	Conductors	2-18 AWG 16% tinned copper Red - White
	Drain	24 AWG 16% tinned copper bare

Notes:

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

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