

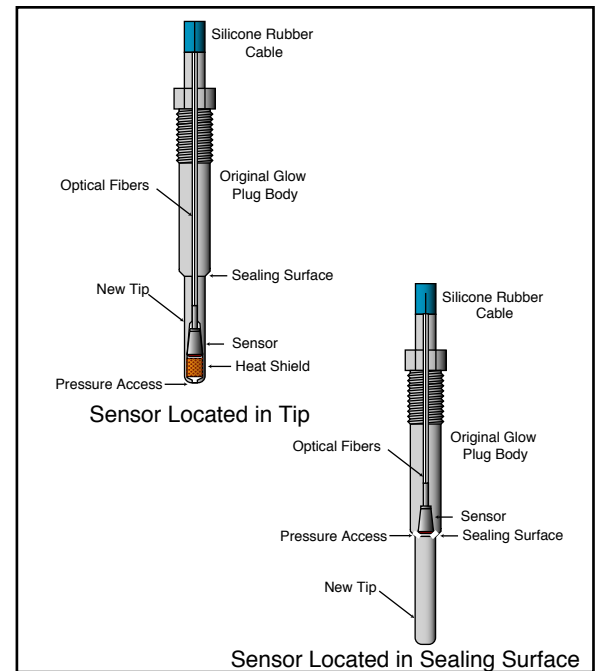
PSIglow-A™

Pressure Sensing Glow Plug Adapter

- AutoPSI Sensor integrated into the shell of a customer supplied glow plug (glow plug does not function)
- Guaranteed fit and correct volumetric displacement
- Free of channel resonance
- Ideally suited for in-vehicle multi-cylinder engine pressure calibration, mapping, and durability tests
- Available in -TC version with 0.005%/°C thermal coefficient of sensitivity, matching water-cooled sensor performance
- Total accuracy (including non-linearity, hysteresis, thermal shock): ±1% vs water water-cooled reference
- Pressure access located either in tip or near sealing surface
- Suitable for all glow plugs



The PSIglow pressure sensor adapter utilizes a customer supplied glow plug which is modified to accept an AutoPSI pressure sensor. The resulting package has identical volume to the original plug and allows for direct pressure readings without any head modifications. The PSIglow is available in the standard (-S), temperature compensated (-TC), and high-temperature electronics (-HT) variations of the AutoPSI sensor system and provides a low-cost, non-invasive solution for combustion pressure monitoring and testing of diesel engines.



Specifications

Pressure Range <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	0-200 bar (~3000 psi)	Output Impedance <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	250 Ohm
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Interface Power Supply <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	9-18 V DC, 85 mA
Over Pressure <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	2x Pressure Range (standard)	Vibration <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	100 g
Natural Frequency <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	>120 kHz (standard)	Sensor Operational Mode <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Sealed Gauge
Frequency Range <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	0.1 Hz to 10 kHz (standard)	Pressure Media <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Gaseous
Operating Temperature (continuous)		Fiber Optic Cable Length <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	2m (6.5 ft.) (standard)
Sensor Housing <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-40 to 300°C (572°F)	Interface Unit/Amplifier <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Integrated with Sensor
Cable <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	-40 to 200°C (390°F)	Signal Conditioner <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Dia. 1.125" x 3.25"
Signal <input type="checkbox"/> -S Version <input type="checkbox"/> <input type="checkbox"/>	-20 to 65°C (150°F)	Guaranteed Lifetime <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	2 years
Conditioner: -HT Version <input type="checkbox"/> <input type="checkbox"/>	-20 to 125°C (257°F)		
Temperature Coefficient of Sensitivity			
AutoPSI-S <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	±0.03% /°C (standard)		
AutoPSI-TC <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	±0.005% /°C (standard)		
Total Accuracy <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	±1% FSO		
(Thermal Shock, Hysteresis, Non-linearity) <input type="checkbox"/>			
Output Signal <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	0.5-5 V Analog		
Diagnostic Output Signal <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	0-3.6 V Analog		



46155 Five Mile Road, Plymouth, Michigan 48170, U.S.A.
 ☐ Phone: 734-451-3480 Fax: 734-451-2945
 ☐ Email: sales@optrand.com Web: www.optrand.com