

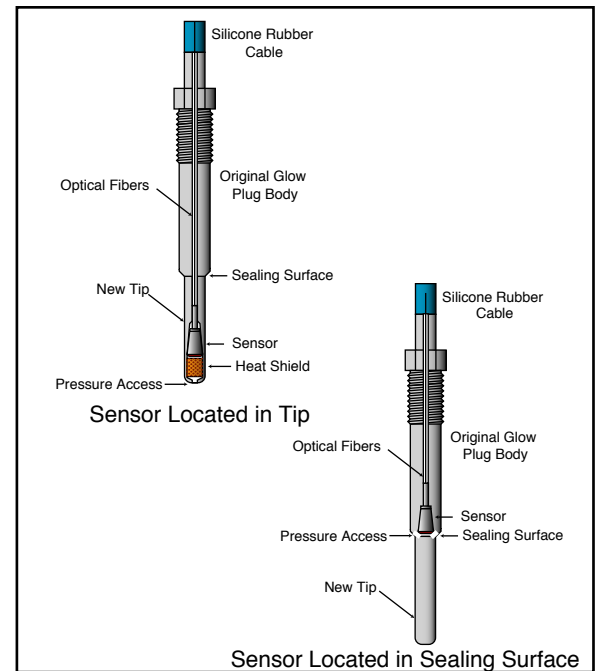
PSIglow-A™

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

