

# AutoPSI-DC™

## Static Pressure Sensor for High Temperature Applications



The AutoPSI-DC is designed for static and dynamic pressure measurements in harsh environments characterized by high temperature up to 300°C, high levels of Electromagnetic and Radio Frequency Interference fields (EMI/RFI), and chemically volatile media.

The sensor targets the following applications:

- The plastic industry, specifically in the monitoring of injection molding and extrusion
- Monitoring and control of compressor pressure in natural gas pumping stations
- Die-casting, turbine engines, oil exploration

Housed in a robust and low-cost package, the AutoPSI-DC signal conditioner is contained in a metal cylinder 1.5" (~3.8cm) in diameter and 4" (~10cm) long, permanently connected to a 6.5' (~2m) long and high-temperature (200°C) cable. The sensor is powered by a DC source and provides pressure output of 0-5V, 0.5-5V, or 0-10V.

The AutoPSI-DC sensor is available in a sealed gauge pressure package, with a non-corrosive and non-abrasive metal diaphragm. It is available in all standard Optrand sensor packages, with non-linearity & hysteresis of  $\pm 1\%$  or  $\pm 0.5\%$  and a frequency range of 0Hz to 15kHz. The sensor is also available in custom packages.

## Specifications

<b>Pressure Ranges</b>	0-7 bar (~100 psi)
	0-14 bar (~200 psi)
	0-70 bar (~1,000 psi)
	0-100 bar (~1,500 psi)
	0-200 bar (~3,000 psi)
	0-700 bar (~10,000 psi)
	0-2,000 bar (~30,000 psi)
<b>Non-Linearity &amp; Hysteresis</b>	± .5%, 1% FSO
<b>Output Signal</b>	Analog, 0.5 V to 5V
	0V to 5V
	0V to 10V
<b>Thermal Sensitivity Shift</b>	0-200°C:±.5% FS