

# HIGH-PERFORMANCE PRESSURE TRANSDUCER

## LONG-TERM RELIABILITY

**PX5500 Series**  
**mV/V Output**  
**0-15 to 0-10,000 psi**  
**0-1 to 0-700 bar**

PX5500L1-100GV,  
 \$550, shown  
 actual size.



All Ranges  
**\$550**

- ✓ High Accuracy: 0.1%
- ✓ Solid State Reliability
- ✓ Sputtered Strain Gage Design
- ✓ High Shock and Vibration Resistance
- ✓ Low Drift
- ✓ 5-Point NIST Calibration Standard

### Applications

- ✓ Testing
- ✓ R&D/Engineering Test Laboratories
- ✓ Functional Test Systems
- ✓ Production Testing
- ✓ Product Quality Assurance
- ✓ Flight Testing
- ✓ Gas Turbine and Engine Test Standards
- ✓ Ground Support Equipment
- ✓ Hydraulic Systems
- ✓ Custody Transfer Measurements

OMEGA's PX5500 Series transducers provide high performance in demanding industrial and research applications in which accuracy, reliability, and price are important. These transducers have a 10-year MTBF rate and are stable to 0.1% of FSO over an 18-month period. This translates into less downtime, fewer test reruns, more time between calibrations, and high confidence in pressure data. When

recalibration is impossible, relying on the high stability of a PX5500 Series transducer may be the only cost-effective way to obtain pressure data over the long term. OMEGA's thin-film technology makes this premium performance possible. The strain gages and associated structures are sputter-deposited directly onto the pressure sensing element, thus eliminating the need for adhesives. The resulting molecular bond

between the sensing element and the strain gages ensures virtually no shifting, drifting, or "creep" in the performance of the transducer. The micro-geometry design of the PX5500 sensing element results in a very small, low-mass sensor that reduces effects of mechanical vibration and shock. The PX5500 gives you accuracy, reliability, and stability at competitive prices.

**MOST POPULAR MODELS HIGHLIGHTED!**

<b>To Order (Specify Model Number)</b>				
<b>Models with mV/V Output, MS33656-4 Connection, Integral Connector</b>				
<b>RANGE</b>	<b>MODEL NO.</b>	<b>PRICE</b>	<b>COMPATIBLE METERS*</b>	
<b>Absolute Pressure (All Ranges Available in Absolute Pressure)</b>				
0 to 15 psi	0 to 1.0 bar	<b>PX5500L1-015AV</b>	<b>\$550</b>	DP41-S, DP25B-S
0 to 25 psi	0 to 1.7 bar	<b>PX5500L1-025AV</b>	<b>550</b>	DP41-S, DP25B-S
0 to 50 psi	0 to 3.4 bar	<b>PX5500L1-050AV</b>	<b>550</b>	DP41-S, DP25B-S
0 to 100 psi	0 to 6.9 bar	<b>PX5500L1-100AV</b>	<b>550</b>	DP41-S, DP25B-S
<b>Gage Pressure (All Ranges also Available in Sealed Gage Pressure)</b>				
0 to 15 psi	0 to 1.0 bar	<b>PX5500L1-015GV</b>	<b>\$550</b>	DP41-S, DP25B-S
0 to 25 psi	0 to 1.7 bar	<b>PX5500L1-025GV</b>	<b>550</b>	DP41-S, DP25B-S
0 to 50 psi	0 to 3.4 bar	<b>PX5500L1-050GV</b>	<b>550</b>	DP41-S, DP25B-S
0 to 100 psi	0 to 6.9 bar	<b>PX5500L1-100GV</b>	<b>550</b>	DP41-S, DP25B-S
0 to 250 psi	0 to 17.2 bar	<b>PX5500L1-250GV</b>	<b>550</b>	DP41-S, DP25B-S
0 to 500 psi	0 to 34.5 bar	<b>PX5500L1-500GV</b>	<b>550</b>	DP41-S, DP25B-S
0 to 1000 psi	0 to 68.9 bar	<b>PX5500L1-1KGV</b>	<b>550</b>	DP41-S, DP25B-S
0 to 1500 psi	0 to 103 bar	<b>PX5500L1-1.5KGV</b>	<b>550</b>	DP41-S, DP25B-S
0 to 2500 psi	0 to 172 bar	<b>PX5500L1-2.5KGV</b>	<b>550</b>	DP41-S, DP25B-S
0 to 3000 psi	0 to 207 bar	<b>PX5500L1-3KGV</b>	<b>550</b>	DP41-S, DP25B-S
0 to 5000 psi	0 to 345 bar	<b>PX5500L1-5KGV</b>	<b>550</b>	DP41-S, DP25B-S
0 to 10,000 psi	0 to 689 bar	<b>PX5500L1-10KGV</b>	<b>550</b>	DP41-S, DP25B-S

Comes with 5-point calibration.

\* See section D for compatible meters.

Metric ranges available – see Metric Section.

To order absolute pressure models, replace "G" in model number with "A". No extra charge.

To order sealed gage models, replace "G" in model number with "S". No extra charge.

**Ordering Examples:** **PX5500L1-1KSV**, 1000 psi sealed gage transducer with **PTIH-10-6P** electrical connection and **MS33656-4** male pressure port, **\$550**. **PTS06A-10-6S**, mating connector (not included), **\$47**. **PX5500L1-100AV**, 100 psi absolute pressure transducer with **PTIH-10-6P** electrical connection and **MS33656-4** male pressure port, **\$550**. **PTS06A-10-6S**, mating connector (not included), **\$47**.

### ACCESSORY

<b>MODEL NO.</b>	<b>PRICE</b>	<b>DESCRIPTION</b>
<b>ES-2132</b>	<b>\$125</b>	Reference Book: Hydraulic Design Handbook





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