

Stainless Digital Compensated Pressure Transducer

This transducer is designed for general industrial and commercial requirements offering excellent performance over a wide range of applications. It is based on proven micro-machined silicon technology that offers high reliability, long-term stability, and low cost relative to competing technologies. It combines precision pressure sensing with a rugged stainless construction that allows it to operate reliably under the most extreme environmental conditions.

This Pressure Transducer is available in a variety of mounting and electrical options and pressure ranges. It is fully digitally compensated for effects of pressure and temperature changes and calibrated to produce industry standard electrical outputs. These models accept unregulated and regulated excitation voltage and provides output signals of 0-5VDC or 4-20mA.

The units are easy to install and maintain. No adapters are required and there is no need for field calibration. It offers superior accuracy, below 0.25% span and below 1% over a wide compensated temperature range. Its design incorporates a stainless steel isolation diaphragm and 316 SS construction for use with most media types.

- 0.2% accuracy typical (0.3% worst)
- Excellent long term stability
- Solid State / Industrial grade
- Temperature compensated
- 0-5 VDC, 4-20mA
- Vacuum and compound pressure ranges available
- Low cost



Specifications

Pressure Range	see description below	
Reference Accuracy	±0.2% FSTYP, ±0.3% FS MAX (Consult factory for ranges below 15psi)	
Total Error Band (includes temperature effects)	±1% FS	
1 Year stability	<0.25% FS	
Outputs	4-20mA	0-5 VDC
Input Supply Voltage	11-30 VDC	9-30 VDC
Load Limitation	500 Max.	50 min.
Operating Temperature	-40 to 80° C	
Process Temperature	-40 to 125°	
Compensated Temperature	-25 to 75°	
Overpressure	2X FS9 (or 750psig, whichever is less for 500psi range)	
Burst Pressure	3X FS (or 750psig, whichever is less for 500psi range)	
Vibration	10G, 55-2,000 Hz	
Shock	30G	
Process Wetted Material	316 L Stainless Steel	
Electronics Housing material	1/4-19 NPT	
Electronic Connection	Cable, DIN, Packard, connection available; 18" shielded cable standard	

Part No.	Item	Description
465S	Pressure Transducer, Non-Submersible	0-30 psi, 0-69' range 4-20 mA
472S	Pressure Transducer, Non-Submersible,	0-75 psi, 0-172' range, 4-20 mA
473S	Pressure Transducer, Non-Submersible	0-150 psi, 0-345' range, 4-20 mA
474S	Pressure Transducer, Non-Submersible	0-75 psi, 0-172', 0-5 VDC
477S	Pressure Transducer, Non-Submersible	0-15 psi, 0-34' range, 4-20 mA