

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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MSP-400 EMI/RFI Protected Stainless Steel Isolated Pressure Transducer

ISO 9002

■ Low Cost OEM

■ 100% Leak Proof

Features

One-piece Stainless Steel Construction Ranges up to 10,000 PSI or 700 BAR Amplified Outputs Excellent Accuracy Wide Operating Temperature Range

Applications

Pumps and Compressors
Hydraulic/Pneumatic Systems
Off Road
Energy and Water Management
Pressure Instrumentation
Refrigeration Equipment
Agriculture Equipment
Train Braking Systems





Description

The MSP series pressure transducers set a new price-performance standard for low cost, high volume, commercial and industrial applications. This series is suitable for measurement of liquid or gas pressure, even for difficult media such as contaminated water, steam, and mildly corrosive fluids or gases.

The transducer pressure cavity is machined from a solid piece of 17-4 PH stainless steel. The standard version includes a 1 / $_{4}$ NPT pipe thread allowing a leak-proof, all metal sealed system. There are no o-rings, welds or organics exposed to the pressure media. The durability is excellent.

Measurement Specialties proprietary Microfused technology, derived from demanding aerospace applications, employs micromachined silicon piezoresistive strain gages, fused with high temperature glass to a stainless steel diaphragm. This approach achieves media compatibility simply and elegantly providing an exceptionally stable sensor without the p-n junctions of conventional micromachined sensors.

This product is geared to the OEM customer using medium to high volumes. The standard version is suitable for many applications, but the dedicated design team at our Transducer Engineering Center stands ready to provide a semi-custom design where the volume and application warrants.

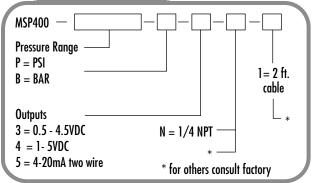
SPECIFICATIONS

0 to 100, 250, 500, 1000, 2500, 5000, 1000	00 PSI (consult factory for compound ranges)
(0 to 7, 17, 35, 70, 175, 350, 700 BAR)	
\pm .5% of FS Span (for higher accuracy consult factory)	
17-4 PH stainless steel (for other material consult factory)	
1/4" NPT (for other ports consult factory)	
>10 ⁸ full pressure cycles	
2X rated pressure	
5X or 20000PSI whichever is less	
\pm 0.25% FS Span (typical)	
5VDC	10-30VDC
<10mA	<15mA
	1-5VDC, fixed (4)
0.5 - 4.5VDC, ratiometric to supply (3)	4-20mA two wire (5)
2 ft PVC jacketed cable (for other options consult factory)	
$\pm2\%$ of FS Span (for tighter tolerances consult factory)	
\pm 2% of FS Span (for tighter tolerances consult factory)	
5K Ohm (min) for high level voltage	
0 Ohms @ 10V (1100 Ohms @ 32V) for 4-2	0mA
< 2mVRMS	
DC to 1KHz (Typical)	
	± .5% of FS Span (for higher accuracy consult 17-4 PH stainless steel (for other material consult 1/4" NPT (for other ports consult factory) >108 full pressure cycles 2X rated pressure 5X or 20000PSI whichever is less ± 0.25% FS Span (typical) 5VDC <10mA 0.5 - 4.5VDC, ratiometric to supply (3) 2 ft PVC jacketed cable (for other options consult 2% of FS Span (for tighter tolerances consult 2% of FS Span (for tighter tolerance

ENVIRONMENTAL

Operating temperature range	-40° to 185°F (-40 to 85°C), (For other temperature ranges consult factory)
Compensated temperature range	30 to 158°F (0 to 70°C)
Zero thermal error	$<$ \pm 1.5% of FS Span
Span thermal error	$<$ \pm 1.5% of FS Span
Storage temperature range	-40 to 212°F (-40 to 100°C)
Shock	50g, 11msec half sine shock per MIL standard 202F, method 213B, condition A
Vibration	±20g MIL-STD-810C, Procedure 514.2, Figure 514.2-2, curve L
EMI/RFI Immunity	EN 50081-2 EN 50082-2 (10V/M, 26-1000MHz) EN 61326 (Effective July 1, 2001)

ORDERING



Electrical Connections:

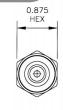
White

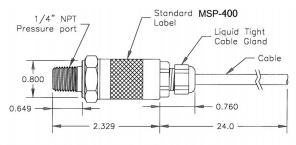
 Outputs:
 3/4
 5

 Red
 +Supply
 Red
 +Supply

 Black
 Ground
 Black
 Output

Output





DIMENSIONS IN INCHES AND ARE REFERENCE ONLY.



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