

MSP-600
New High Accuracy, Digitally Compensated
EMI/RFI Protected Stainless Steel
Isolated Pressure Transducer



- High Accuracy
- Low Cost OEM
- 100% Leak Proof

Features

High Accuracy
Digitally Compensated
One-piece Stainless Steel Construction
Ranges up to 10,000 PSI or 700 BAR
Amplified Outputs
Wide Operating Temperature Range
Low Pressure Configuration



Pumps and Compressors
Hydraulic/Pneumatic Systems
Off Road/Mobile Equipment
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.

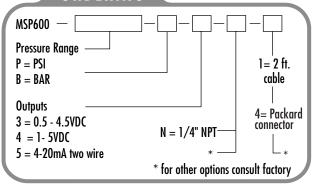
SPECIFICATIONS

Formance at 25°C (77°F): Pressure range 0-25, 50, 75, 100, 250, 500, 1000, 2500, 5000, 7500, 10000 PSI (0-3, 6, 7, 17, 35, 70, 175, 350, 525, 700 BAR) Accuracy, % of FS Span (combined linearity, hysterisis and repeatability) ± 0.25% BSL, max (per ISA S37.2) Media compatibility 17-4 PH stainless steel (optional 316L stainless) Pressure cycles 10 million, minimum Pressure overload 2 times rated pressure Burst pressure 4 times full scale or 20,000 PSI, whichever is less
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Purst procesure
Burst pressure 4 times full scale or 20,000 PSI, whichever is less
Long term stability (1 year) \pm 0.25% FS Span (Typical)
ctrical: Ratiometric Non-Ratiome
Supply voltage 4.75 to 5.25VDC 10 - 30VDC
Supply current <10mA <25mA
Output 0.5 to 4.5V, at 5V (3) 1 - 5V, three wire:
4 - 20mA, two wii
Load impedance > 100k Ohms for quoted performance
for 4 - 20mA; 0.05(Vsupply-10)k Ohms (maximum)
Bandwidth DC to 1 KHz (Typical)
Standard connector options Packard connector - Metri-pack 150, 3 pins
Cable - 24" length
(Additional connectors available upon request)

ENVIRONMENTAL

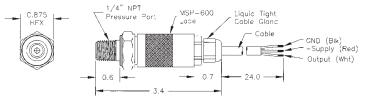
Operating temperature range	-40° to 100°C (125°C available, consult factory)
Compensated temperature range	-20° to 85°C (125°C available, consult factory)
Total error band (over compensated temperatu	$<$ \pm 1% of FS (75-10,000 PSI) ire range) $<$ \pm 1.5% of FS (25-50 PSI)
Storage temperature range	-45° to 100°C
Shock	50g, 11msec half sine shock per MIL standard 202F, method 213B, condition A
Vibration	± 20 g 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)
Humidity	95% RH, condensing

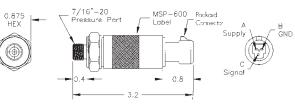
ORDERING



Electrical Connections:

Outputs:	3/4		5	
·	Red Black White	+Supply Ground Output	Red Black	+Supply Output





Dimensions In Inches And Are Reference Only

UNITED STATES
Measurement Sr

Measurement Specialties, Inc. PO Box 799

Valley Forge, PA 19482

Tel: (610) 650-1500 Fax: (610) 650-1509 Email: sensors@msiusa.com

Web site: www.msiusa.com



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