## **Microfused Technology**



1% Total **Error Band** No Leaks ■ No Welds ■ No "O" Rings

■ No Silicone Oil

NEW DIGITALLY

COMPENSATED

DESIGN



- 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

# **Applications**

**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.





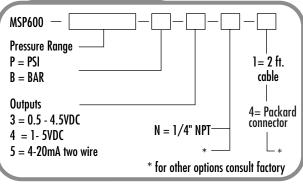
## SPECIFICATIONS

#### Performance at 25°C (77°F):

## ENVIRONMENTAL

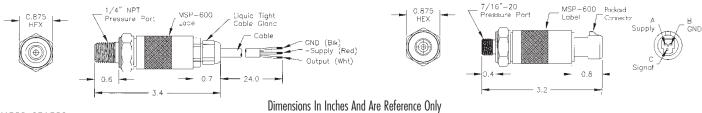
Humidity	95% RH, condensing
EMI/RFI Immunity	EN 50081-2 EN 50082-2 (10V/M, 26-1000MHz) EN 61326 (Effective July 1, 2001)
Vibration	±20g MIL-STD-810C, Procedure 514.2, Figure 514.2-2, curve L
Shock	50g, 11msec half sine shock per MIL standard 202F, method 213B, condition A
Storage temperature range	-45° to 100°C
Total error band (over compensated temperature range)	$<\pm$ 1% of FS (75-10,000 PSI) $<\pm$ 1.5% of FS (25-50 PSI)
Compensated temperature range	-20° to 85°C (125°C available, consult factory)
Operating temperature range	-40° to 100°C (125°C available, consult factory)

#### ORDERING

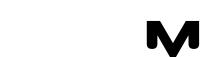


#### Electrical Connections: Outputs: 3/4

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



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M E A S U R E M E N T

