

1.本站收集的数据手册和产品资料都来自互联网,版权归原作者所有。如读者和版权方有任 何异议请及时告之,我们将妥善解决。

本站提供的中文数据手册是英文数据手册的中文翻译,其目的是协助用户阅读,该译文无法自动跟随原稿更新,同时也可能存在翻译上的不当。建议读者以英文原稿为参考以便获得更精准的信息。

3.本站提供的产品资料,来自厂商的技术支持或者使用者的心得体会等,其内容可能存在描 叙上的差异,建议读者做出适当判断。

4.如需与我们联系,请发邮件到marketing@iczoom.com,主题请标有"数据手册"字样。

# **Read Statement**

1. The datasheets and other product information on the site are all from network reference or other public materials, and the copyright belongs to the original author and original published source. If readers and copyright owners have any objections, please contact us and we will deal with it in a timely manner.

2. The Chinese datasheets provided on the website is a Chinese translation of the English datasheets. Its purpose is for reader's learning exchange only and do not involve commercial purposes. The translation cannot be automatically updated with the original manuscript, and there may also be improper translations. Readers are advised to use the English manuscript as a reference for more accurate information.

3. All product information provided on the website refer to solutions from manufacturers' technical support or users the contents may have differences in description, and readers are advised to take the original article as the standard.

4. If you have any questions, please contact us at marketing@iczoom.com and mark the subject with "Datasheets".

## **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.





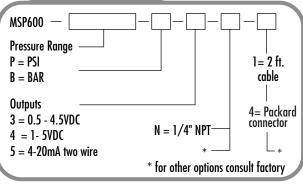
## SPECIFICATIONS

#### Performance at 25°C (77°F):

## ENVIRONMENTAL

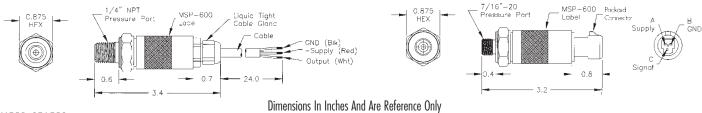
Humidity	95% RH, condensing
EMI/RFI Immunity	EN 50081-2 EN 50082-2 (10V/M, 26-1000MHz) EN 61326 (Effective July 1, 2001)
Vibration	±20g MIL-STD-810C, Procedure 514.2, Figure 514.2-2, curve L
Shock	50g, 11msec half sine shock per MIL standard 202F, method 213B, condition A
Storage temperature range	-45° 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



UNITED STATES 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



M E A S U R E M E N T

