



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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Shown with Packard Connector



## **MSP340**

### Pressure Transducer

#### SPECIFICATIONS

- **Low Cost OEM**
- **100% Leak Proof**
- **No O-Rings**
- **No Silicon Oil**
- **No Welds**

The MSP340 pressure transducer from the Microfused™ line of MEAS is great for 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.

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.

MEAS' 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 while providing an exceptionally stable sensor without the p-n junctions of conventional micromachined sensors.

This product is geared to the OEM customer who uses 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.

## FEATURES

- One-Piece Stainless Steel Construction
- Ranges up to 10kpsi or 700Bar
- mV or Amplified Outputs
- Ultra Compact Construction
- Hermetically Isolated Sensor Technology

## APPLICATIONS

- Pumps and Compressors
- Hydraulic/Pneumatic Systems
- After Market Automotive
- Tank Pressure in Breathing Apparatuses
- Agriculture – Sprayers and Dusters
- Refrigeration – Freon and Ammonia Based

## STANDARD RANGES

<b>Range</b>	<b>psig</b>	<b>Range</b>	<b>Barg</b>
0 to 50	•	0 to 3	•
0 to 100	•	0 to 7	•
0 to 300	•	0 to 20	•
0 to 500	•	0 to 35	•
0 to 1k	•	0 to 70	•
0 to 3k	•	0 to 200	•
0 to 5k	•	0 to 350	•
0 to 10k	•	0 to 700	•

**PERFORMANCE SPECIFICATIONS**

**Supply Voltage: 5.0V, Ambient Temperature: 25°C (unless otherwise specified)**

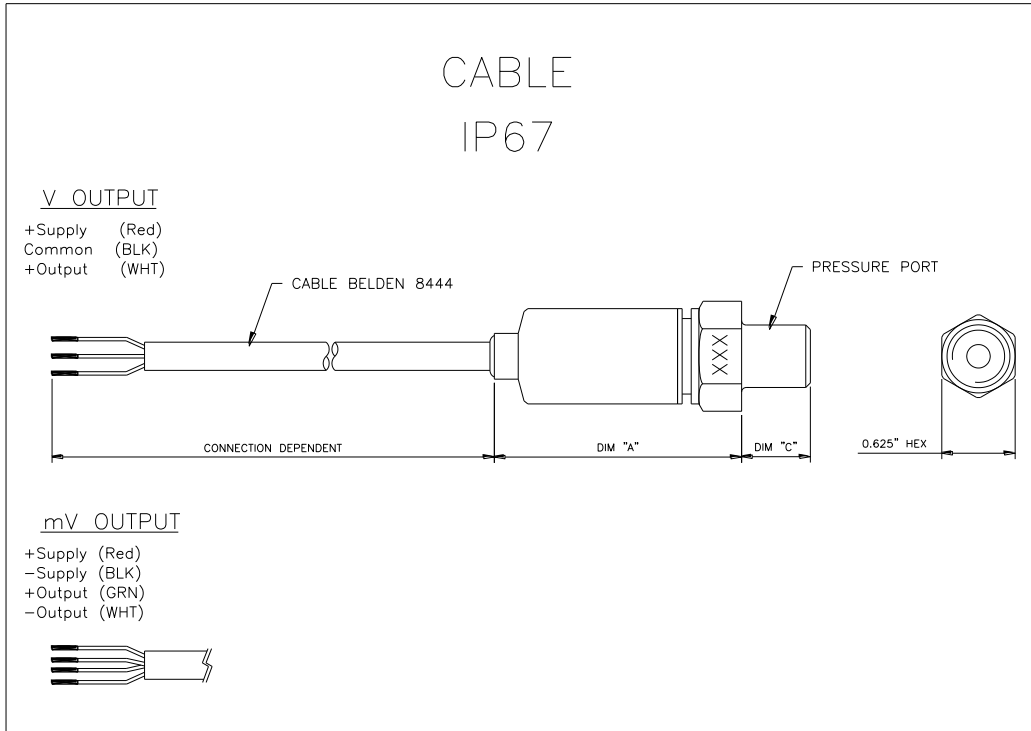
PARAMETERS	MIN	TYP	MAX	UNITS	NOTES
Zero Offset Tolerance	-2.0		2.0	%F.S.	1
Span Tolerance	-2.0		2.0	%F.S.	1
Accuracy (combined non linearity, hysteresis, and repeatability)	-1.0		1.0	%F.S.	2
Long Term Stability (1 year)	-0.25		0.25	%F.S.	
Isolation, Body to Any Lead (@250Vdc)	50			MΩ	
Temperature Error – Zero	-2.0		2.0	%F.S.	
Temperature Error – Span	-2.0		2.0	%F.S.	
Compensated Temperature	0		55	°C	
Operating Temperature	-20		+85	°C	
Storage Temperature	-40		+85	°C	
Pressure Cycles (Zero to Full Scale)	10			Million	
Proof Pressure	2X			Rated	
Burst Pressure	5X			Rated	
Load Resistance (RL, mV Output)		RL > 1		MΩ	
Load Resistance (RL, V Output)		RL > 5		KΩ	
Bandwidth	DC to 1KHz (typical)				
Shock	50g, 11 msec Half Sine Shock per MIL-STD-202G, Method 213B, Condition A				
Vibration	±20g, MIL-STD-810C, Procedure 514.2-2, Curve L				

**For custom configurations, consult factory.**

**Notes**

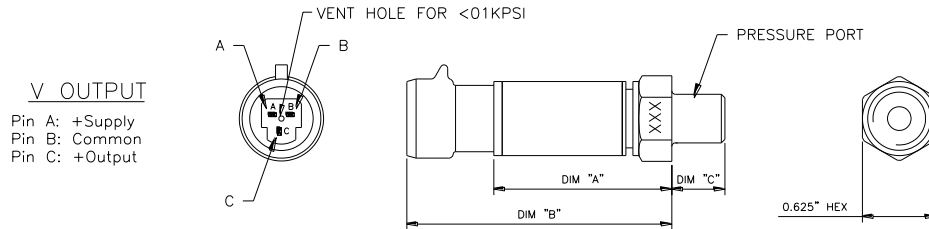
1. Over compensated temperature range.
2. Best fit straight line.

**DIMENSIONS**



Note: Mating connector is available with 3FT of cable P/N(2001140-03)  
 For other length, consult factory

### PACKARD CONNECTOR IP66 FOR W/O VENT HOLE



Mating Packard connector:  
 Housing P/N 12078090, Socket P/N:12103881  
 (Not supplied, but available from Web site for mating Connector:  
[www.powerandsignal.com](http://www.powerandsignal.com))

# MSP340

Pressure Transducer

PRESSURE PORT		
CODE	PORT	DIM C
2	1/4-19 BSPP	0.47 [11.94]
3	1/8-28 BSPP	0.315 [8.00]
4	7/16-20 UNF MALE SAE J514 STRAIGHT THREAD O-RING BUNA-N 70SH -904 ID8.92mmXW1.83 mm	0.385 [9.70]
5	1/4-18 NPT	0.45 [11.43]
6	1/8-27 NPT	0.45 [11.43]

CODE	CONNECTION	DIMENSIONS	
1	CABLE,4 WIRE BELDEN#8444, 2 FEET	DIM A	1.62[41.15]
2	CABLE,4 WIRE BELDEN#8444, 4 FEET	DIM A	1.62[41.15]
4	PACKARD Metri-Pack CONNECTOR	DIM A	1.68[42.67]
		DIM B	2.43[61.72]

## OUTPUT OPTIONS

Code	Output	Supply(V)		
		MIN	TYP	MAX
2	0 – 20mV/V (ratiometric)	2.5	5	12
3	0.5 – 4.5V (ratiometric)	4.75	5	5.25
4	1 – 5V	10		30

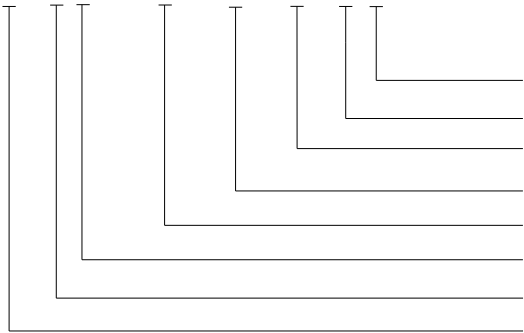
Packard connector not available with mV output.

### Wiring Code

Code	Output	+Supply	-Supply	+Out	-Out
2	0 – 20mV/V (ratiometric)	Red	Black	Green	White
3	0.5 – 4.5 V (ratiometric)	Pin A	Pin B [Common]	Pin C	N/A
4	1 – 5 V	Pin A	Pin B [Common]	Pin C	N/A

**ORDERING INFORMATION**

**M3421-000002-050PG**



- Type (G = Gage)
- Units (P = psi, B = Bar)
- Pressure Range (See Standard Ranges Table)
- Pressure Port (See Pressure Port Table)
- Specials (nnnnn = Custom Drawing)
- Electrical Connection (1 = 2ft Cable, 2 = 4ft Cable, 4 = Packard Metri-Pack)
- Output (See Output Options Table)
- Model

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