

MSP340 Pressure Transducer



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



Shown with Packard Connector

DESCRIPTION

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

APPLICATIONS

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

Range	psig	Range	Barg
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	•

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MSP340 Pressure Transducer

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				thod 213B,		

Vibration

For custom configurations, consult factory.

Notes

1. Over compensated temperature range.

2. Best fit straight line.

±20g, MIL-STD-810C, Procedure 514.2-2, Curve L

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DIMENSIONS



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	PRESSURE PC	DRT					
CODE	PORT	DIM C					
2	1/4-19 BSPP	0.47 [11.94]	60.05				
3	1/8-28 BSPP	0.315 [8.00]	CODE	CONNECTION	DI	MENSIONS	
4	7/16–20 UNF MALE SAE J514 STRAIGHT THREAD	0.385	1	CABLE,4 WIRE BELDEN#8444, 2 FEET	DIM A	1.62[41.15]	
	0-RING BUNA-N 70SH -904 ID8.92mmXW1.83 mm		2	CABLE,4 WIRE BELDEN#8444, 4 FEET	DIM A	1.62[41.15]	
5	1/4-18 NPT	0.45 [11.43]		PACKARD Metri-Pack	DIM A	1.68[42.67]	
6	1/8-27 NPT	0.45 [11.43]	4	CONNECTOR	DIM B	2.43[61.72]	

OUTPUT OPTIONS

			Supply(V)	
Code	Output	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



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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 (nnnn = Custom Drawing) Electrical Connection (1 = 2ft Cable, 2 = 4ft Cable, 4 = Packard Metri-Pack) Output (See Output Options Table) Model

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