







- Stainless Steel Pressure Sensor
- Flush Diaphragm
- Small threads
- Suitable for general applications
- Broad frequency range

DESCRIPTION

The **EPX** is a miniature threaded pressure sensor with stainless steel flush diaphragm compatible with general media. Threads M5x0.8 or 10-32 UNF are available with built-in 0-ring seal for an easy installation. The **EPX** is offered in many pressure ranges from 0.35 to 350 bar (5 to 5000 psi) with gage, sealed gage, or absolute pressure reference. Non standard excitation, compensated temperatures, cable and thread lengths are available as options.

FEATURES

- Small threads M5x0.8 or 10-32 UNF
- Ranges from 0.35 to 350 bar (5 to 5,000 psi)
- Stainless Steel Construction
- Useful frequency up to 90kHz
- CE approved

APPLICATIONS

- General testing
- Automotive, marine and flight testing
- Space flight and experimentation

STANDARD RANGES

Pressure ranges		Pressure Reference		Pressure	Resonant	Output	CNL&H	Thermal Zero	
(BAR)	(PSI)	gage (type1)	sealed (type2)	abs. (type3)	Limit	Frequency ⁽¹⁾ (nom.)	"FSO" (nom.)	(%FSO)	Shift "TZS" (/50°C)
0.35	5	•	•	•	10 x FS	45 KHz	15 mV	±1%	±1mV
0.7	10	•	•	•	5 x FS	50 KHz	25 mV	±1%	±1mV
1	15	•	•	•	3.5 x FS	65 KHz	30 mV	±1%	±1mV
1.5	25	•	•	•	2 x FS	65 KHz	50 mV	±1%	±2% FSO
3.5	50	•	•	•	2 x FS	75 KHz	75 mV	±1%	±2% FSO
7	100	•	•	•	2 x FS	80 KHz	125 mV	±0.5%	±1.5% FSO
15	250	•	•	•	2 x FS	120 KHz	125 mV	±0.5%	±1.5% FSO
35	500	•	•	•	2 x FS	150 KHz	125 mV	±0.5%	±1.5% FSO
70	1K		•	•	2 x FS	200 KHz	125 mV	±0.5%	±1.5% FSO
150	2.5K		•	•	1.6 x FS	300 KHz	125 mV	±0.5%	±1.5% FSO
350	5K		•	•	1.2 x FS	450 KHz	125 mV	±0.5%	±1.5% FSO

Note 1: useful frequency is 20% of Resonant Frequency



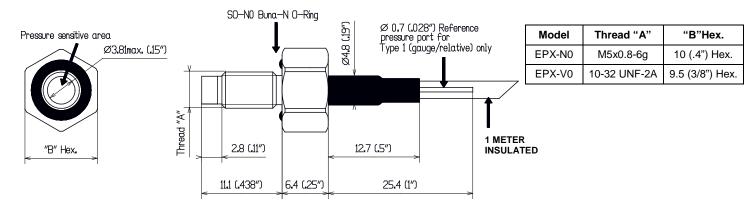
EPX Miniature pressure sensor

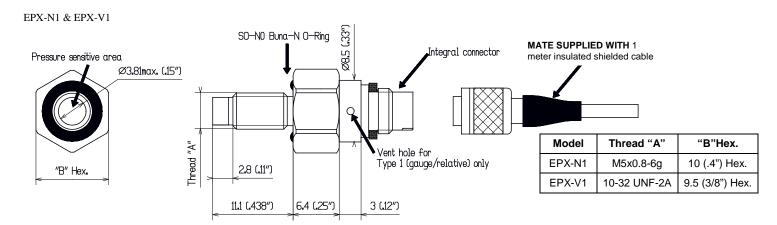
PERFORMANCE SPECIFICATIONS

PARAMETERS	VALUES	NOTES
Supply Voltage	10VDC	See option table for other Voltages
Input Resistance	1200 Ω nom.	
Output Resistance	350Ω nom.	
Non-Repeatability	±0.25% FSO	
Thermal Sensitivity Shift "TSS"	±2%/50°C	
Operating Temperature	-40°C to 120°C	
Compensated temperature	20°C to 80°C	See option table for other Temperatures
Zero Offset at 23°C	±10 mV	
CE conformance according to	EN 61010-1, EN 50081-1, EN 50082-1	

DIMENSIONS

EPX-N0 & EPX-V0





Dim: mm (inches)



EPX Miniature pressure sensor

INSTALLATION

CONNECTIONS

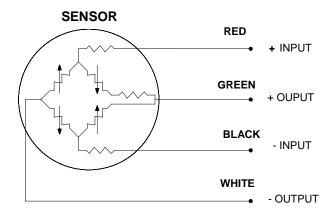
Recommended installation torque:

 $FS \le 3.5$ bar (50 psi) : 0.6 m.N (5 In.Lbs)

 $FS > 3.5 \ to \ 35 \ bar \ (50 \ to \ 500 \ psi)$: 1.2 m.N (10 In.Lbs)

FS > 35 bar (500 psi) : 1.8 m.N (15 ln.Lbs)

*Note: Excessive torque may change zero offset. In such cases, output should be re-zeroed through instrumentation.



OPTIONS AND ACCESSORIES

OPTIONS	CODES	DESCRIPTIONS		
Compensated Temperature Ranges	Z0 Z1 Z2 Z*	-40°C to 20°C -20°C to 40°C 0°C to 60°C Non-standard, contact MEAS		
Supply Voltage	V00 V*	Replace "00" with Voltage between 1 and 10. If less than 10, Sensitivity FSO will decrease accordingly Non-standard Excitation with standard FSO and non-standard TSS, contact MEAS		
Special Cable Length	L00F L00M	Replace "00" with total length in feet Replace "00" with total length in meters		
Custom Length Hex to Tip	0000I 0000M	Replace "0000" with thread length in inches between 0.25" to 1.5" Replace "0000" with thread length in millimeters between 6.3 to 38mm		
Waterproofing Cable Exit (only for models N0 or V0 sealed or absolute)	X	Short Term Waterproofing		
Connector Wired to Leads or Cable	C RS	Microtech type male or equivalent (w/o mate) RJ Telephone type male (w/o mate)		
Extra O-Rings for EPX	SO-N0 SO-N2 SO-N3	BUNA-N Fluoroelastomer Fluoropolymer		



EPX Miniature pressure sensor

ORDERING INFORMATION

Model	-	Body	Pres. Ref.	-	Range & Unit ⁽¹⁾		-	/Options
EPX		N0	1 = Gauge	-	0.35B	5P	-	/Z0, Z1, Z2, or Z*
		N1	2 = Sealed		0.7B	10P		/V1 thru V10 or V*
		V0	3 = Absolute		1B	15P		/L00F or L00M
		V1			1.5B	25P		/0000I or 0000M
					3.5B	50P		/X
					7B	100P		/C or RS
					15B	250P		
					35B	500P		
					70B	1KP		
					150B	2.5KP		
					350B	5KP		

Note 1: select ranges in BAR with body N and ranges in PSI with body V. Examples of model construction: EPX-N13-7B-/Z1/V5/L3M/38M or EPX-V01-15P-/Z0/L6F/1.5I/C

NORTH AMERICA

Measurement Specialties, Inc.
Vibration Design Center
32 Journey - Suite 150
Aliso Viejo, CA 92656
United States USA
Tel: 1-949-716-0877
Fax: 1-949-916-5677

t&m@meas-spec.com

EUROPE

Measurement Specialties
(Europe), Ltd.
26 Rue des Dames
78340 Les Clayes-Sous-Bois,
France
Tel: +33 (0) 130 79 33 00
Fax: +33 (0) 134 81 03 59
cs.lcsb@meas-spec.com

ASIA

Measurement Specialties (China), Ltd. No. 26 Langshan Road Shenzhen High-Tech Park (North) Nanshan District, Shenzhen 518057 China

> Tel: +86 755 3330 5088 Fax: +86 755 3330 5099 pfg.cs.asia@meas-spec.com

The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. Measurement Specialties, Inc. reserves the right to make changes without further notice to any product herein. Measurement Specialties, Inc. makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does Measurement Specialties, Inc. assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters must be validated for each customer application by customer's technical experts. Measurement Specialties, Inc. does not convey any license under its patent rights nor the rights of others.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Measurement Specialties:

EPX-1KPG-C10003 EPX-500PG-C10003