EPXN Series



- Small size
- Silicon chip diaphragm for dry gas media
- Long term stability

DESCRIPTION

The EPXN is a high performance small pressure sensor using silicon chip for clean media (non corrosive). With it's recessed port, it is best recommended for static applications or low frequency. Available with 10-32UNFor M5 thread, EPXN is available with a cable or integral connector.

Offered in pressure ranges from 5 to 150 psi (0.3 to 10 bar), vented and absolute pressure. Various compensated temperature ranges are available from -40 °C up to 90 °C. The sensor is offered with an amplified or unamplified output.

FEATURES

APPLICATIONS

Available ranges 0-5 to 150 psi (0-0.3 to 10 bar) 0.3 % to 0.5 % accuracy Available with or without amplifier CE approved 0.2% zero & output stability over 6 months Space flight and test Flight and marine testing Automotive and racing testing General test lab Space flight and test

STANDARD RANGES

Pressure ranges		Pressure Reference		Pressure	Response	Output "FSO" ⁽²⁾	CNL&H	Thermal Zero	
(BAR)	(PSI)	Gage (type1)	abs.	Limit	Time ⁽¹⁾ (min.)	(nom.)	(%FSO)	Shift ''TZS'' (50℃)	
0.3	5	•	not available	3 x FS	20 ms	50 mV or 5V	±0.5%	±1% FSO	
1	15	•	•	3 x FS	20 ms	75 mV or 5V	±0.3%	±1% FSO	
2	30	•	•	3 x FS	20 ms	75 mV or 5V	±0.3%	±1% FSO	
5	75	•	•	3 x FS	20 ms	75 mV or 5V	±0.3%	±1% FSO	
10	150	•	•	3 x FS	20 ms	75 mV or 5V	±0.3%	±1% FSO	

Note 1 : useful frequency is a function of cavity resonance and thereby suitable for static and low frequency use only.

Note 2 : FSO is 50 mV and 75 mV nom. for types N0, N4, VO and V4; 5V nom. on all others.

PERFORMANCE SPECIFICATIONS

PARAMETERS	VALUES	NOTES
Supply Voltage	N0. N4. V0 & V4 = 15VDC N2. N6. V2 & V6 = ±15VDC N3, N7, V3 & V7 = 28 VDC (24-32VDC)	See option table for other voltage
Input Resistance	N0, N4, V0 & V4 = $15K\Omega$ nom. N2 N3 N6 N7 V2 V3 V6 & V7 = $3mA max$	
Output Resistance	N0. N4. V0 & V4 = 15KO nom. N2. N6. V2 & V6 = <1Ο. N3, N7, V3 & V7 = 1KΩ	
Non-Repeatability	± 0.25% FSO	
Thermal Sensitivity Shift "TSS"	± 1%/50℃	
Operating Temperature	-40℃ to 120℃	
Compensated temperature	0 ℃ to 60 ℃	See option table for other temperature
Zero Offset at 23 ℃	±5% FSO typ.	
CE conformance according to	EN 61010-1, EN 50081-1, EN 50082-1	
Zero Offset at 23 ℃	±5% FSO typ.	

DIMENSIONS







Model	Thread "A"	"B"	"C"	
EPXN-N0	M5x0.8-6g	19 (.75")	13 (.512")	
EPXN-N2, -N3	M5x0.8-6g	23 (.90")	13 (.512")	
EPXN-V0	10-32 UNF-2A	19 (.75")	12.7 (.50")	
EPXN-V2, -V3	10-32 UNF-2A	23 (.90")	12.7 (.50")	

EPXN-N4, -N6, -N7, -V4, -V6 & V7



non-conductive and non-corrosive

Dim : mm (inches)

EPXN-N0, -N4, -V0 & -V4

CONNECTIONS & INSTALLATION

Red + Input Green + Output Black - Input White Output



EPXN-N2, -N6, -V2 & -V6

It is recommended that "0V COMMON" of the power supply be grounded if consistent whit proper operation of the instrumentation system. EPXN-N3, -N7, -V3 & -V7



Common mode output voltage of + 2V nom. referred to - Input

Recommended installation torque : for all pressure range : 1 m.N (8 In.Lbs)

OPTIONS AND ACCESSORIES

OPTIONS	CODES	DESCRIPTIONS
Compensated Temperature Ranges	Z0 Z1 Z4 Z*	-40℃ to 20℃ -20℃ to 40℃ 40℃ to 90℃ Non-standard, contact MEAS
Supply Voltage (12U: only for model N3, N7, V3, V7)	12U V*	8 to 16 VDC, FSO = 2.5 V with VCM = 1 V from -Output to Ground Non-standard Excitation with FSO contact MEAS
Special Cable Length	L00F L00M	Replace "00" with total length in feet Replace "00" with total length in meters
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 EPXN	SO-NO SO-N2 SO-N3	Buna-N Viton Teflon

ORDERING INFORMATION

Model	-	Body	Pres. Ref.	-	Range	& Unit ⁽¹⁾	-	/Options
EPXN	-	N0 N6 V3	1 = Gauge	-	0.3B	5P	-	/Z0, Z1, Z4 or Z*
		N2 N7 V4	3 = Absolute		1B	15P		/12U or V*
		N3 V0 V6			2B	30P		/L00F or L00M
		N4 V2 V7			5B	75P		/C or RS
					10B	150P		

Note 1: select ranges in BAR with body N and ranges in PSI with body V. Examples of model construction: EPXN-N21-10B-/Z1/L3M or EPXN-V33-75P-/Z0/L6F/C