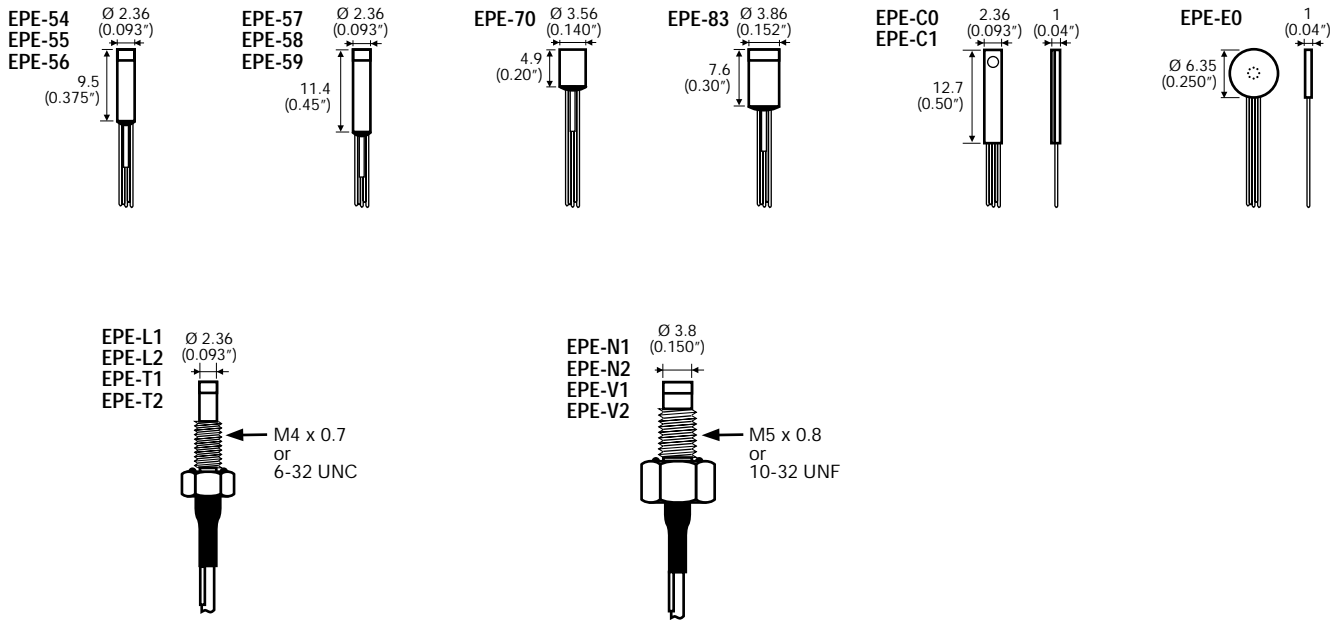


EPE Series Pressure Sensors



Low Pressure - High Sensitivity

MOUNTINGS



Dim.: mm (inches)

EPE Series

PRESSURE SENSOR:

PSI RANGES "FS" (Note 1)	BAR RANGES "FS" (Note 1)	PRESSURE LIMIT BURST	RESONANT FREQUENCY nom. (Note 2)	OUTPUT "FSO" (nom./min.)	CNL&H (%FSO)	THERMAL ZERO SHIFT /50°C (/100°F)
2	0.13	23 XFS	80 KHz	300/120 mV	± 1½ %	± 3 %FSO
5	0.35	20 XFS	100 KHz	400/200 mV	± ¾ %	± 3 %FSO

MICROPHONE (-M):

dB SPL RANGE (Note 1)	PRESSURE LIMIT BURST	RESONANT FREQUENCY nom. (Note 2)	SENSITIVITY (nom./min.)	AMPLITUDE LINEARITY 100 to 190dB SPL
100 to 190	3 BAR (45 PSI) STATIC	80 KHz	23.2/11.6rms mV at 160dB SPL 80/40 mV/PSI (1.2/0.6 mV/mBAR) -99/-105dB ref. 1V/Pa	± ½ dB

Notes: ¹ Vented (gauge/relative) Pressure Reference 1. Temperatures expressed in °F for PSI Ranges and °C for BAR and dB SPL Ranges. ² Frequency Response within ±½dB to 5KHz, ±5dB to >20KHz.

EXCITATION:

10VDC

IMPEDANCE IN:

1000Ω min. typ.

IMPEDANCE OUT:

1200Ω nom. typ. (800Ω min.)

THERMAL SENSITIVITY SHIFT (TSS):

Pressure Sensors: ±4%/50°C (±4%/100°F)
Microphones: ±½dB/50°C (±½dB/100°F) typ.

OPERATING TEMPERATURE:

-40°C to 120°C (-40°F to 250°F)

COMPENSATED TEMPERATURE:

20°C to 80°C (70°F to 170°F)

Option Z2: 0°C to 60°C (32°F to 140°F)

ZERO OFFSET AT 21°C (70°F):

Pressure Sensors: ±10 mV typ.

Microphones: ±25 mV typ.

PRESSURE REFERENCES:

1 = Vented (gauge/relative)

Entran®



www.entran.com

EPE PRESSURE SENSORS
Low Pressure - High Sensitivity
Sensors and Microphones

Entran Sensors & Electronics

USA: Fairfield, NJ
UK: Garston, Watford, Herts, England
Europe: Les Clayes-sous-Bois, France

SPECIFICATION	ISSUE	PAGE
EPES0001U	PD0	1 of 4

EPE specifications continued ...

Options and Accessories:

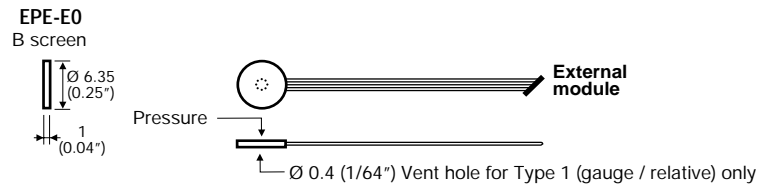
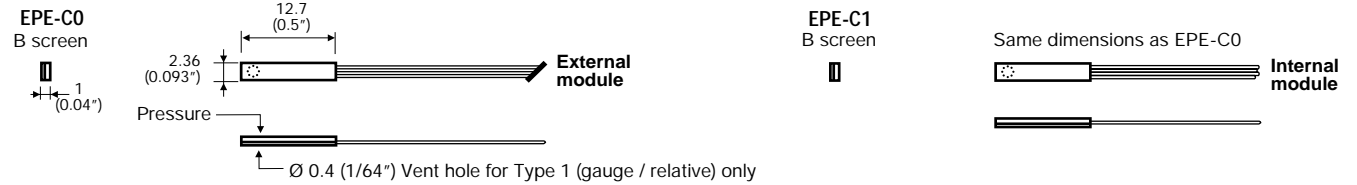
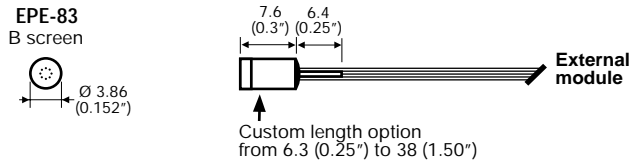
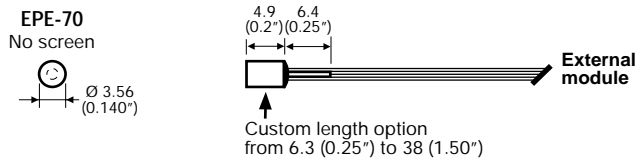
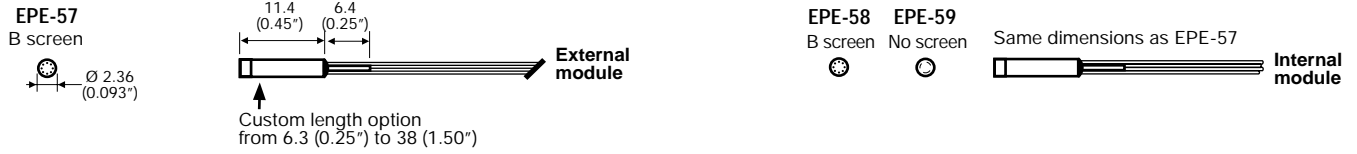
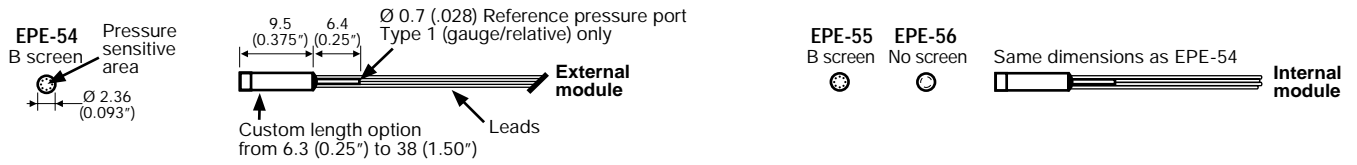
COMPENSATED TEMPERATURE RANGES:	STANDARD = 20°C to 80°C (70°F to 170°F)
	Z0 = -40°C to 20°C (-40°F to 70°F)
	Z1 = -20°C to 40°C (0°F to 100°F)
	Z2 = 0°C to 60°C (32°F to 140°F)
	Z4 = 40°C to 90°C (100°F to 200°F)
	Z* = Non-standard, contact Entran
5 WIRE BRIDGE WIRING FOR ADJUSTABLE ZERO OFFSET:	5 = 5 Wire
EXCITATION VOLTAGE:	STANDARD = 10VDC
	V00 = Replace "00" with Excitation between 1 and 10. If less than 10, Sensitivity (FSO) will decrease accordingly.
	V* = Non-standard Excitation with standard FSO and non-standard TSS, contact Entran.
SPECIAL LEAD OR CABLE LENGTH:	L00F = Replace "00" with total length in feet.
	L00M = Replace "00" with total length in meters.
SPECIAL MODULE LOCATION FOR -54, -57, -83, -C0, -E0:	M00F = Replace "00" with distance between sensor and module in feet.
	M00M = Replace "00" with distance between sensor and module in meters.
CUSTOM LENGTH:	0000I = Replace "0000" with length in inches between 0.25" and 1.50" (Ex: 1.50I)
	0000M = Replace "0000" with length in millimeters between 6.3mm and 38mm (Ex: 35M)
REPLACEMENT OF "B" TYPE SCREEN WITH "M" SCREEN ON -54, -55, -57, -58, -83, -L2, -N2, -T2 & -V2:	M = "M" Screen
WATERPROOFING LEAD OR CABLE EXIT:	X = Short term waterproofing. Limited to 105°C (220°F) except on threaded mountings.
CONNECTOR WIRED TO LEADS OR CABLE:	C = Microtech type male or equivalent (w/o mate) for leads or cable.
	R = RJ Telephone type male (w/o mate) for leads.
	RS = RJ Telephone type male (w/o mate) for cable.
	RQ = Pins to mate with MM50 screw terminals.
MATING CONNECTORS FOR CONNECTOR OPTIONS: EXTRA O-RINGS FOR EPE:	See Cable and Connector Bulletins SO-L0, -N0 & -V0=BUNA-N SO-N2 & SO-V2=Viton SO-N3=Teflon

Model Number construction:

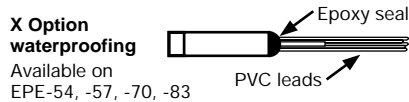
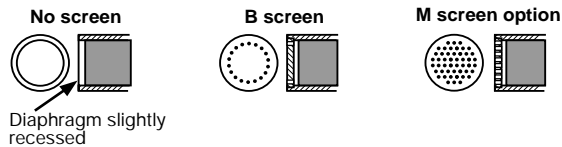
<u>EPE</u> Series	-	<u>54</u> Body	-	<u>1</u> Reference	-	<u>.13</u> Range	-	<u>B</u> Units	-	<u>/R/L3M/35M/Z2</u> Options
54	70	L1 T1		1		M = 100 to		B = BAR		C, R, RS or RQ V1 thru V10 or V*
55	83	L2 T2				190 dB SPL		P = PSI		L00F or L00M X
56	C0	N1 V1						(Not used for microphone)		M Z0, Z1, Z2, Z4 or Z*
57	C1	N2 V2								M00F or M00M 5
58	E0									0000I or 0000M
59										

Entran®	EPE PRESSURE SENSORS	SPECIFICATION	ISSUE	PAGE
		EPES0001U	PD0	2 of 4

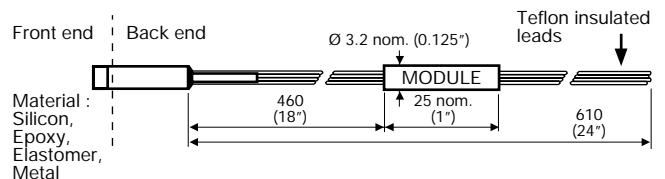
EPE specifications continued ...



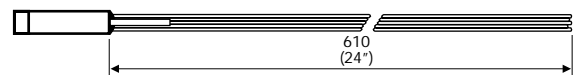
PRESSURE SENSING END STYLES



WIRING - EXTERNAL MODULE



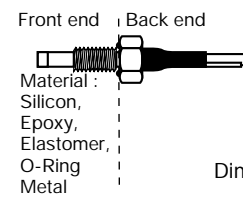
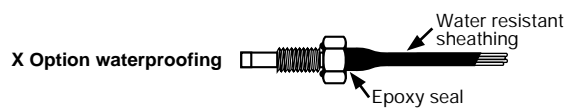
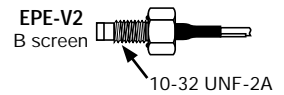
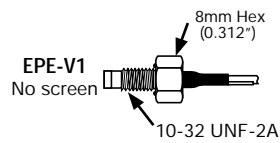
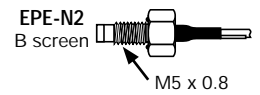
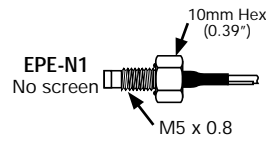
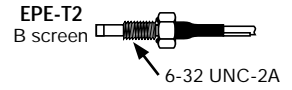
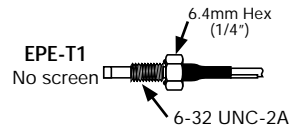
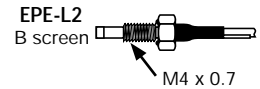
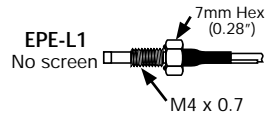
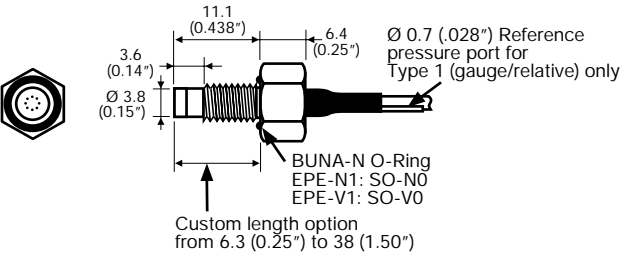
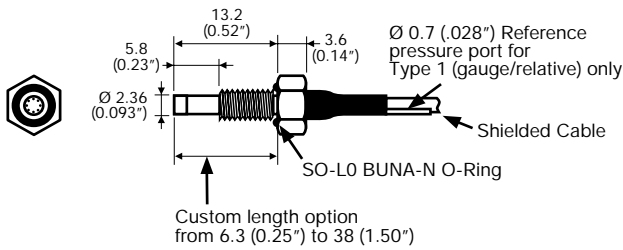
WIRING - INTERNAL MODULE



Dim.: mm (inches)

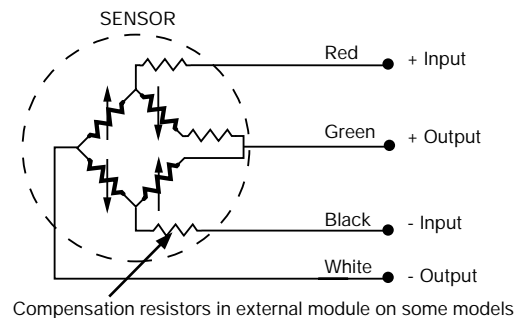
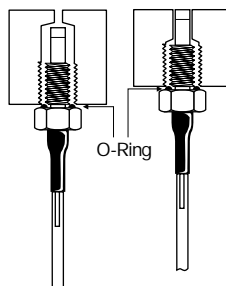
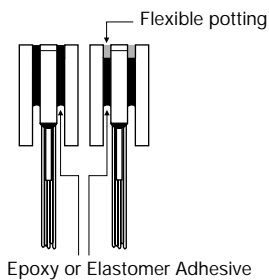
Entran®	EPE PRESSURE SENSORS	SPECIFICATION	ISSUE	PAGE
		EPES0001U	PD0	3 of 4

EPE specifications continued ...



Dim.: mm (inches)

Installation:



Entran®

EPE PRESSURE SENSORS

SPECIFICATION	ISSUE	PAGE
EPES0001U	PD0	4 of 4