



CE

FEATURES

- Various housings: cylindrical from diam. 1.27 to 2.36 mm, low profile housing or threads M4x0.7, M5x0.8, 6-32UNC, 10-32UNF
- Frequency 0-25 kHz through 340 kHz
- CE approved

APPLICATIONS

- Space flight and test
- Automotive tests
- Wind tunnels measurement
- Racing testing

EPIH Sub-Miniature Pressure sensor

SPECIFICATIONS

- Ranges 0.35 to 20 bar (5 to 300 psi)
- Extremely small size
- Flush diaphragm
- High frequency response
- Various housings available

The **EPIH** is a subminiature pressure sensor, specifically designed for dynamic and high frequency measurements with resonant frequency up to 1.7 MHz

Available with many various housings, **EPIH** is one of the smallest pressure sensors in the world. The **EPIH** is offered in pressure ranges from 0-5 to 300 psi (0-0.35 through 20 bar). Various compensated temperature ranges are available from -40°C up to 80°C.

Suitable for dry gas and some fluids with Parylene or RTV protection (options). Non-standard excitation, compensated temperatures are available as options.

On request, Instruction documents can be provided to ease the selection and use of our sensors and provide helpful tips.

STANDARD RANGES

Pressure ranges		Pressure Reference			Pressure Limit	Resonant Frequency ⁽¹⁾	Sensitivity "FSO"	CNL&H (%FS)	Thermal Zero Shift "TZS"
bar	psi	gage (type1)	sealed (type2)	abs. (type3)	Linin	(nom.)	(nom.)	(/053)	(/50°C)
0.35	5	•	•	•	5 x FS	500 KHz	2.4 mV/V	±1%	±0.1 mV/V
0.7	10	*	*	*	5 x FS	500 KHz	4.8 mV/V	±1%	±0.1 mV/V
1	15	*	*	*	3 x FS	500 KHz	7.2 mV/V	±1%	±0.1 mV/V
1.5	25	*	*	*	2 x FS	500 KHz	12 mV/V	±1%	±2.5 % FSO
3.5	50	*	*	*	2 x FS	600 KHz	15 mV/V	±1%	±2.5 % FSO
5	75	*	*	*	2 x FS	700 KHz	15 mV/V	±1%	±2.5 % FSO
7	100	*			2 x FS	1.0 MHz	15 mV/V	±1%	±2.5 % FSO
14	200	+	*		2 x FS	1.4 MHz	20 mV/V	±1%	±2.5 % FSO
20	300	*	*	*	2 x FS	1.7 MHz	20 mV/V	±1%	±2.5 % FSO

Note: Useful frequency is 20% of Resonant Frequency Sensors are Calibrated with 10 V_{DC} power supply as standard

PERFORMANCE SPECIFICATIONS (typical values at temperature 23±3°C)

PARAMETERS	VALUES	NOTES		
Supply Voltage	$5V_{DC}$	See option table for other Voltage		
Input Resistance	1500Ω nom.			
Output Resistance	1500Ω nom.			
Non-Repeatability	0.25% FS	Recommanded warm-up time > 15 min		
Thermal Sensitivity Shift "TSS" in CTR	- 2% to - 8% /50°C			
Operating Temperature Range (OTR)	-40°C to 120°C			
Compensated Temperature Range (CTR)	20°C to 80°C	See option table for other Temperature		
Zero Offset	±20 mV/V			
CE conformance according to	EN 61010-1, EN 50081-1, EN 50082-1			

INSTALLATION

Recommended installation torque: 1.2 Nm (10 in-lbf) for all threaded models

PRESSURE SENSING END TYPE

No screen

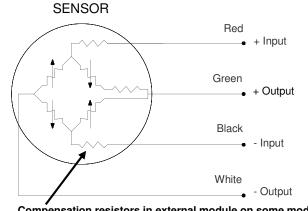
B screen





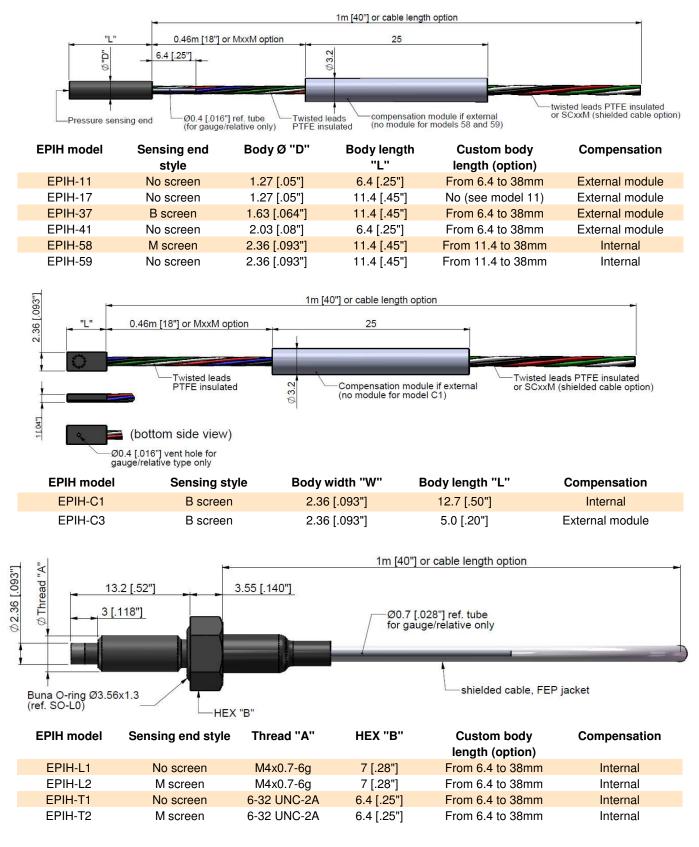
M screen

CONNECTIONS



Compensation resistors in external module on some models

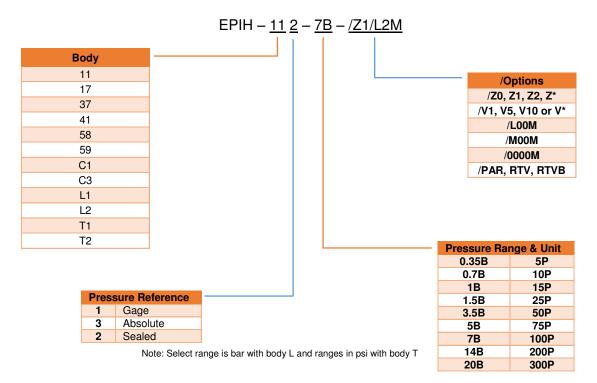
DIMENSIONS in metric [in inches]



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
Supply Voltage	V00 V10 V*	Replace "00" with Voltage between 1 and 5. If less than 5, Sensitivity FSO will decrease accordingly 10V Excitation, Input impedance = 3000Ω , TSS = -4% /50°C nom. (not available for model 58 and 89) Non-standard Excitation with standard FSO and non-standard TSS
Cable Length Option	L00M SC00M	Replace "00" with total length in meter (regular cable) Replace "00" with total length in meter (shielded cable instd of leads)
Special Module Location : (only for models 11, 17, 37, 41, C3)	MOOM	Replace "00" with distance between sensor and module in meter
Custom Length Hex to Tip	0000M	Replace "0000" with thread length between 6.4mm and 38mm
Protective Coatings on Diaphragm (only for model without screen)	PAR RTV RTVB	Parylene RTV silicone rubber Black RTV silicone rubber (protection against light sensitivity)

ORDERING INFORMATION





株式会社 クローネ

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