



Pressure Sensor PX-22 Series



High Resolution



High Speed
Analogue Output



Excellent long-term Stability

Description

The PX-22 series has been designed to withstand the extreme temperature, vibration and shock levels of automotive test applications. The fully welded stainless steel pressure module provides excellent media compatibility, high over-pressure and burst ratings. The temperature compensated signal is a customer specific high level output voltage ideal for interfacing with data acquisition hardware. The PX-22 series can be powered directly from the vehicle battery, even during the start cycle. It is suitable for measurements where temperature cannot be controlled and reliable high performance measurement is required.

Pressure Ranges (FRO) - Gauge

100 mbar to 150 bar (any zero based range between)
Bi-directional from ± 100 mbar

Pressure Ranges (FRO) - Absolute

2 bar to 150 bar (any zero based range between)

Overpressure

200 / 400 % depending on pressure range (FRO)

Output Signal

Current 4 to 20 mA (two-wire)

Load Impedance

> 5 kOhm

Measurement Performance

Valid for Pressure Ranges ≥ 2 bar

Total Error Band within Operating Temperature Range

(includes non-linearity, hysteresis, repeatability, zero and span settings, thermal shift on zero and span)
Standard $\leq 1\%$ FRO
optional $\leq 0.5\%$ FRO
optional $\leq 0.25\%$ FRO

Stability

$\leq 0.1\%$ FRO per year (typically)

Response Time

< 0.5 ms

Zero and Span Setting

Digital adjustable, optional

Operating Temperature Range

-40°C bis $+125^{\circ}\text{C}$

Electrical Connections

Output	Function	M12x1	MIL-C26482	Cable	HGA.0B
Volts	+ Vs	1	A	Red	4
	+ Output	4	B	White	1
	- Vs	3	C+D	Blue	2+5

Dimensions (mm)

Thread	A	Connector	B	C
M10x1 length 12 mm	12	M12x1	33	12
M10x1 length 8 mm	8	Cable	35	19
M14x1,5	10	MIL-C26482	37	12
		HGA.0B	45	3

