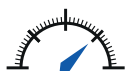


Pressure Sensor

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	≤ 1 % FRO
optional	≤ 0.5 % FRO
optional	≤ 0.25 % FRO

Stability

≤ 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 °C

Supply Voltage (V_S)

8 bis 32 VDC

Current Consumption

≤ 5 mA

Material of Wetted Parts

1.4404 and 1.4435

Electrical Connection

6-pin bayonet MIL-C26482

5-pin M12×1

LEMO HGA.0B.306

High temperature shielded cable

Pressure Connection

M10×1 male	length 12 mm, 80° internal cone
M10×1 male	length 8 mm, flat end
M14×1.5 male	60° internal cone

On request

M10×1 female

7/16-20 UNF

G1/4 male

Rectus 21 (male)

74° external cone

DIN 3852-2 form A

Protection Rate

Depending on mating connector

Weight

75 g, app.

EMC

12 V/m 80 MHz - 2 GHz to DIN EN 61326 (A)

Vibration

DIN EN 60068-2-64 Grade 1

Electrical Connections

Output	Function	M12×1	MIL-C26482	Cable	HGA.0B
Volts	+ V _S	1	A	Red	4
	+ Output	4	B	White	1
	- V _S	3	C+D	Blue	2+5

Dimensions (mm)

Thread	A
M10×1 length 12 mm	12
M10×1 length 8 mm	8
M14×1,5	10

Connector	B	C
M12×1	33	12
Cable	35	19
MIL-C26482	37	12
HGA.0B	45	3

