DDM
sensor solutions

Pressure Sensor

PV-22 Series

- High Resolution
- High Speed
  Analogue Output
- Excellent long-term Stability

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Description

The PV-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 PV-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 (3-wire)
0 to 5 V
1 to 6 V
0.5 to 4.5 V

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 to +125 °C

Supply Voltage (V_S)
8 to 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	74° external cone
G1/4 male	DIN 3852-2 form A
Rectus 21 (male)	

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

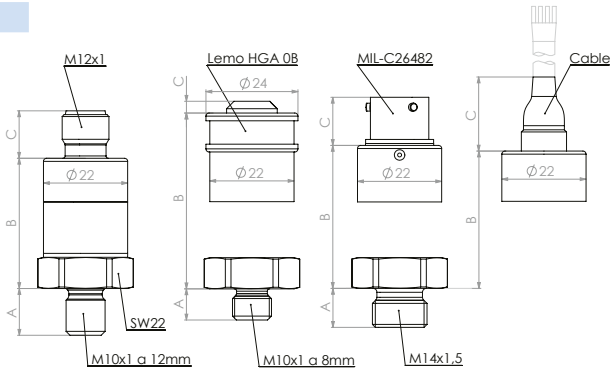
Electrical Connections

Output	Function	M12×1	MIL-C 26482	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



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