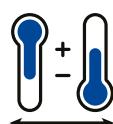


Pressure Sensor PV-22H Series



Wide Temperature Range



High Speed
Analogue Output



High Resolution

Description

The PV-22H 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-22H 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 ± 1 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 $\leq 1\%$ FRO
optional $\leq 0.5\%$ FRO
optional $\leq 0.25\%$ FRO

Stability

$\leq 0.2\%$ FRO per year (typically)

Response Time

< 0.5 ms

Zero and Span Setting

Digital adjustable, optional

Operating Temperature Range

-40°C to +150°C

Supply Voltage (Vs)

8 to 32 VDC

Current Consumption

≤ 5 mA

Material of Wetted Parts

1.4404 and 1.4435

Electrical Connection

High temperature shielded cable

Pressure Connection

M10x1 male	length 12 mm, 80° internal cone
M10x1 male	length 8 mm, flat end
M14x1.5 male	60° internal cone

On request

M10x1 female	74° external cone
7/16-20 UNF	DIN 3852-2 form A
G1/4 male	
Rectus 21 (male)	

Protection Rate

IP67

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	Cable
Volts	+ Vs	Red
	+ Output	White
	- Vs	Blue

Dimensions (mm)

Thread	A	
M10x1 length 12 mm	12	
M10x1 length 8 mm	8	
M14x1.5	10	
Connection	B	C
Cable	35	19

