

Differential Pressure Sensor Series PV-2722



High Resolution



High Speed
Analogue Output

Description

The PV-2722 series has been designed to withstand the extreme temperature, vibration and shock levels of automotive test applications. The wet/wet 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-2722 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) - Differential

100 mbar to 3.5 bar (any zero based range between)
Bi-directional from ± 100 mbar

Overpressure

200 / 400 % depending on pressure range (FRO)

Output Signal (3-wire)

0 to 5 V
1 to 6 V

Load Impedance

> 5 kOhm

Measurement Performance

Valid for Pressure Ranges ≥ 0.5 bar

Total Error Band within Operating Temperature Range

(includes non-linearity, hysteresis, repeatability, zero and span settings, thermal shift on zero and span)
Standard $\leq 1.5\%$ FRO
optional $\leq 1.0\%$ FRO
optional $\leq 0.5\%$ FRO

Stability

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

Response Time

< 1 ms

Zero and Span Setting

Digital adjustable, optional

Operating Temperature Range

-40°C to $+125^{\circ}\text{C}$

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
high temperature shielded cable

Pressure Connection

M10x1 male length 12 mm, 80° internal cone

Protection Rate

Depending on mating connector

Weight

135 g. app.

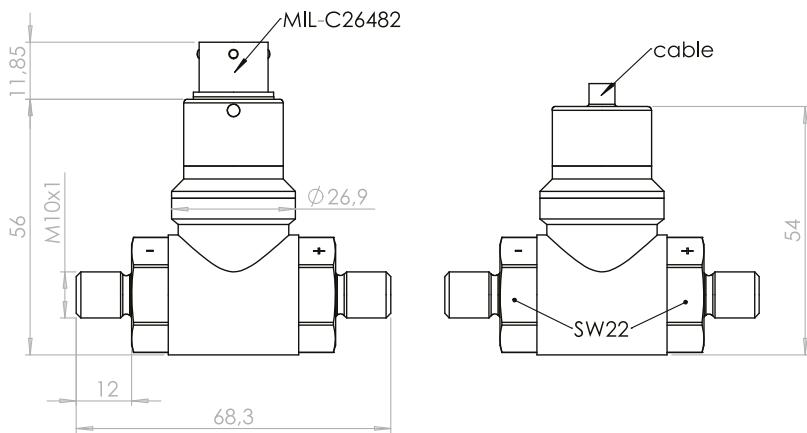
EMC

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

Vibration

DIN EN 60068-2-64 Grade 1

Dimensions (mm)



Electrical Connection

Output	Function	MIL-C26482
Volts	+ V_s	A
	+ Output	B
	- V_s	C + D
	Adjustment	F
	TEDS	E