

DDM



Pressure Sensor

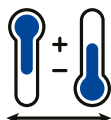
PV-10 Series



Maximum minimised



High Speed
Analogue Output



Wide temperature range

Description

The PV-10 series is maximum minimized. The fully welded stainless steel pressure module provides excellent media compatibility, high overpressure and burst ratings. The temperature compensated signal is a customer specific high level output voltage ideal for interfacing with data acquisition hardware. It is suitable for measurements where temperature cannot be controlled and reliable high performance measurement is required.

Pressure Ranges (FRO) - Gauge

5 bar to 250 bar
(any zero based range between)

Overpressure

200 % depending on pressure range (FRO)

Output Signal (3-wire)

0.5 to 4.5 V (others on request)

Load Impedance

> 5 kOhm

Measurement Performance

Total Error Band within Operating Temperature Range
(includes non-linearity, hysteresis, repeatability,
zero and span settings, thermal shift on zero and span)
Standard ≤ 1.5 % FRO
optional ≤ 1.0 % FRO

Stability

≤ 0.5 % FRO per year (typically)

Response Time

< 0.2 ms

Operating Temperature Range

-40°C to +150°C (to 180°C on request)

Process Media Temperatur

up to +180°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

M5×0,8

IP Rate

IP67

Weight

10 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)

Connection	B	C	D
Cable	19,1	6,2	15,8
Thread	A		
M5×0,8 male	8		

Electrical Connections

Output	Function
Volts	+ Vs
	+ Output
	- Vs
	Adjustment TEDS

