DDM
sensor solutions

Pressure Sensor

PV-15H Series

Minimised

Wide Temperature Range

High Speed
Analogue Output

DDM
sensor solutions

Description

The PV-15H 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-15H 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:
2.5 bar to 150 bar (any zero based range between)
Bi-directional e.g. –1 + 4 bar

Pressure Ranges (FRO) - Absolute:
2.5 bar to 150 bar (any zero based range between)

Overpressure
200 % to 400 % depending on pressure range (FRO)

Output Signal (3-wire)
0.5 to 4.5 V

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

Stability
≤ 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

Process Media Temperature
up to +150 °C

Supply Voltage (V_S)
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
M6×1
M8×1
Others on request

Protection Rate
IP67

Weight
30 g, app.

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

Vibration
DIN EN 60068-2-64 Grade 1

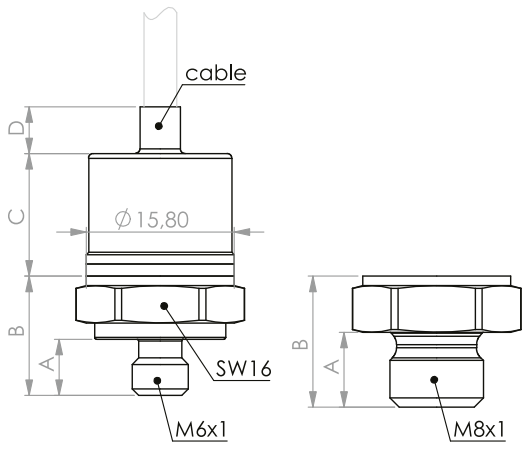
Electrical Connections

Output	Function	Cable
Volts	+ V_S	Red
	+ Output	Yellow
	– V_S	Blue
	Adjustment	Green
	TEDS	–

Dimensions (mm)

Connection	B	C	D
High temperature cable	19.1	6.2	15.8

Thread	A
M6×1 male	8
M8×1 male	8



DDM GmbH & Co. KG » Marie-Curie-Str. 8 » 36039 Fulda » Tel. +49 661 967962-0 / Fax -20 » info@ddm-sensors.de » www.ddm-sensors.de