HOD Series :

The HOD Series is a high quality all stainless steel Pressure Transmitter, this is intended to measure gases and liquids compatible with stainless steel.

The HOD Series is suitable for Automotive, Industrial Hydraulics, Refrigeration, Off-Road Construction, and Agricultural Applications.

With additional EMI/RFI protection, low static and thermal errors and high resistance to shock and vibration as standard, the HOD Series assures trouble free operation at temperatures up to °125C.

The HOD Series piezo resistive sensing element coupled with the latest ASIC circuitry, assures excellent accuracy, choice of high level outputs and long stability, protected within a rugged, stainless steel housing.

The HOD Series high strength stainless steel construction contains no silicone oil and no internal O-rings. Measurements are available in gauge and absolute pressure, with ranges up to 4,000bar and are backed by a one-year warranty.

Code	Output	Range
HODH1600FLCK	4-20 mA	0 ~ 1600 bar
HODH2000FLCK	4-20 mA	0 ~ 2000 bar
HOD4000FLCK	4-20 mA	0 ~ 4000 bar

Applications

- air compressor
- Crane
- Press
- Plastic Machinery
- Level control
- Pump control
- Building installations

Technical Specifications

Protection standard	IP66
Operating temperature	-25 To +125
Body Material	Stainless steel 304
Connection Type	1/4 inch
Weight	60g
Diameter	22mm
During the sensor	66mm
Response Time	Less than 1 ms
The initial pressure	To 4 times the rated
Proper functioning	Up to 2 times rated
Shake	25 G, 20 ~ 2000Hz
Shock	100G, 11 msec, 1 / 2sine

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HOD H 0004 F M C K

Model Name

HOT Series (Normal Pressure Transmitters)
HOX Series (Explosion Proof Pressure Transmitters)
HOF Series (Flush Diaphragm Pressure Transmitters)
HOM Series (Milli Bar Pressure Transmitters)
HOD Series (High Pressure , Pressure Transmitters)

Output

H : 2 Wire 4 ~ 20 MA
HC : 2 Wire 4 ~ 20 MA Compound
J : 3 Wire 0 ~ 10 V
JC : 3 Wire 0 ~ 10 V Compound
F : 3 Wire 0 ~ 5 V

Pressure Range

HOT Series : 0 ~ 600 Mbar , -1 ~ 1000 Bar
HOX Series : 0 ~ 2000 Bar
HOF Series : 0 ~ 200 Bar
HOM Series : 0 ~ 500 Mbar
HOD Series : 0 ~ 4000 Bar

Pressure Unit

F : BAR
R : KPA
P : PSI

Pressure Port

L : NPT 1/4"
W: G 1/2" (Flush Diaphragm)
G: G 1/4" (Normal Type)
M: M18x1.5" (High Pressure)

Conncetor

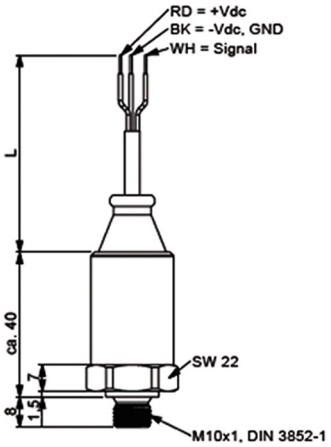
C : DIN EN 803 - 175301 Connector

Type of Pressure Measuremaent

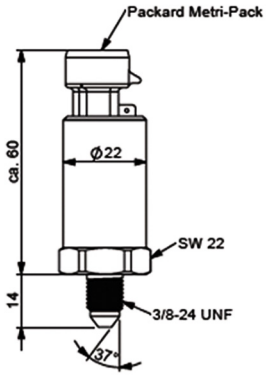
K : Gauge

Dimensions :

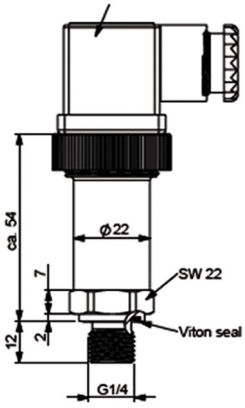
Cable assembly



Packard Metripac Connector



DIN EN 175301 - 803 Connector



Performance :

Accuracy @ RT	% of the range < 0.5 BFSL≤ 0.125	(incl. nonlinearity, hysteresis, repeatability, zero-offset and final offset acc. to IEC 61298-2)
Non-linearity	% of the range ≤ 0.15	
Repeatability	% of the range ≤ 0.10	
Stability/year	% of the range ≤ 0.10	
For pressure ranges above 2000 bar:		
Accuracy @ RT	% of the range < 1.0 BFSL ≤ 0.5	(incl. nonlinearity, hysteresis, repeatability, zero-offset and final
Non-linearity	% of the range ≤ 0.30	
Repeatability	% of the range ≤ 0.20	
Stability/year	% of the range ≤ 0.20	
Response time	(10..90%) t(ms) <1	
Overrange pressure	up to 2x rated pressure	
Burst pressure	up to 5x rated pressure	
Pressure cycles	> 10 million	

Environment :

Temperature [°C]:	
Measuring medium	-40...125
Ambience	-40...105
Storage	-40...125
Compensated range	-20...85
Temperature coefficient within the compensated range:	
Mean TC offset	% of the range ≤ 0,15 / 10K
Mean TC range	% of the range ≤ 0,15 / 10K
Shock	1000 G, 11 msec., 1/2 Sine
Sealing	IP 66, optional IP69K

Electronics :

Excitation	5 VDC for 0.5 – 4.5 V output, 10 - 32 VDC for 0 - 5 V, 1 - 5 V, 4...20 mA output 12 - 32 VDC for 0 – 10V output
Output impedance	< 100 Ω
Current consumption	< 10 mA
Reverse voltage protection	Yes

Mechanics :

Housing incl. wetted parts	304 stainless steel
Pressure port	see select table
Electrical connection	see select table
Weight	ca. 60g

Type	Output	PIN 1	PIN 2	PIN 3	PIN 4
 DIN EN 175301-8 03-A and C	0.5 - 4.5 V , 1 - 5 V , 0 - 10 V	+ Supply	- Supply	Output +	-
	4 .. 20 mA	+ Supply	Current Output -	N / A	-
	I²C	N / A	N / A	N / A	-
 Round connector M12x1 A	0.5 - 4.5 V , 1 - 5 V , 0 - 10 V	+ Supply	N / A	- Supply	Output +
	4 .. 20 mA	+ Supply	N / A	Current Output -	N / A
	I²C	1 | V +	2 | V -	3 | SCL	4 | SDA
	Output	PIN A	PIN B	PIN C	-
 Packard Metripac	0.5 - 4.5 V , 1 - 5 V , 0 - 10 V	- Supply	+ Supply	Output +	-
	4 .. 20 mA	Current Output -	+ Supply	N / A	-
	I²C	N / A	N / A	N / A	-
	Output	Red	Black	White	Green
Cable assembly	0.5 - 4.5 V , 1 - 5 V , 0 - 10 V	+ Supply	- Supply	Output +	-
	4 .. 20 mA	+ Supply	Current Output -	N / A	-
	I²C	V +	V -	SCL	SDA