

HOM Series

Industrial Pressure Transmitter

*Up to 500 mBar pressure range
High strength, rugged stainless steel design*

Accuracy : 1.0% BFSL @ RT

Nominal Pressure

from 0 ... 500mbar

Output signals

2-wire: 4 ... 20 mA

3-wire: 0 ... 5 V / 0 ... 10 V others on request

Special characteristics

- ▶ *Pressure ranges down to 0..10 / 500 mbar*
- ▶ *High strength, rugged stainless steel design*
- ▶ *Best in Range , Competitive price*



The HOM Series offers the robust design with stainless steel housing of the HOT Series but uses a silicon based sensitive measuring cell for low pressure applications from 10 mbar to 500mbar. With additional EMI / RFI protection, low static and thermal errors and high resistance to shock and vibration as standard, the HOM Series assures trouble free operation at temperatures up to 85°C.

Application



- *Low Air Pressure Distribution - BMS & HVAC System*
- *Filter technology*
- *Open Flow Applications*
- *Flood Warning Applications*



- *Blow-moulding machines for glass and plastics industries*

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Technical Data

Input Pressure Range							
Nominal Pressure Gauge (mbar)	10	50	100	250	400	500	
Overpressure (mbar)	20	100	200	500	800	1000	
Burst Pressure (mbar)	30	150	300	750	1200	1500	

Output Signal / Supply	
Standard	4-20mA / Vs : 10-32VDC
Optional: 3 wire	0-10V - 0-5V / Vs : 12-32VDC

Performance	
Accuracy	Standard 1.0% BFSL
Non-linearity	% of the range \leq 0.2
Repeatability	% of the range \leq 0.2
Stability / Year	% of the range \leq 0.15
Response Time	10-90% t(ms) ²
Pressure Cycle	> 10 Million

Environment	
Temperature [°C]:	Measuring medium -40...85 Ambience -40...85 Storage -40...125
Temperature coefficient within the compensated range:	Mean TC offset % of the range \leq 0,15 / 10K Mean TC range % of the range \leq 0,15 / 10K
Shock	1000 G, 11 msec., 1/2 Sine
Vibration	25 G Peak, 20 to 2000 Hz
Sealing	IP 66, Optional IP69K

Electronics	
Output Impedance	< 100 Ω
Current Consumption	< 10 mA
Reverse Voltage Protection	Yes

Mechanics	
Housing	304 stainless steel
Wetted parts	Wetted components stainless steel housing, Plastic s-carrier , Si-membrane, NBR-O-Ring
Pressure Port	See Select Table

Miscellaneous	
Weight	Approx. 140g
Mounting Force	Max 25 Nm.
Calibration	Output is Calibrated at Zero & Full Scale

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Ordering Information

HOT H 0004 F G 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 ~ 5000 Bar

Type of Pressure Measurement

K : Gauge
 A : Absolute

Connection Type

C : DIN EN 803 - 175301 Connector
 M : M12 - 4Pin Female Connector

Pressure Port

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

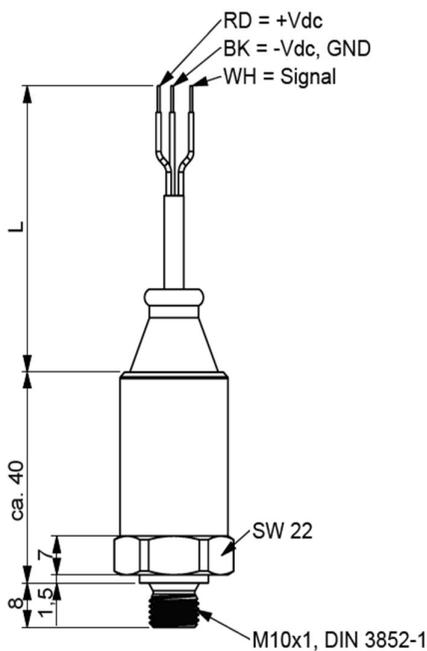
Pressure Unit

F : BAR

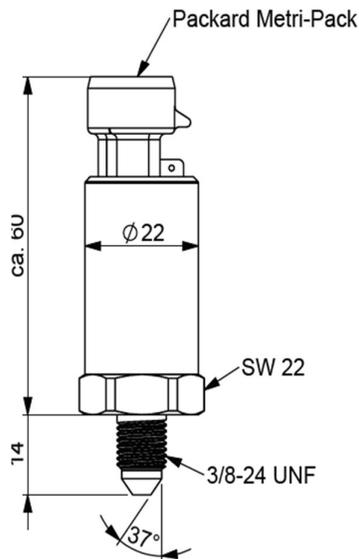
Dimensions

Gauge Pressure Dimension

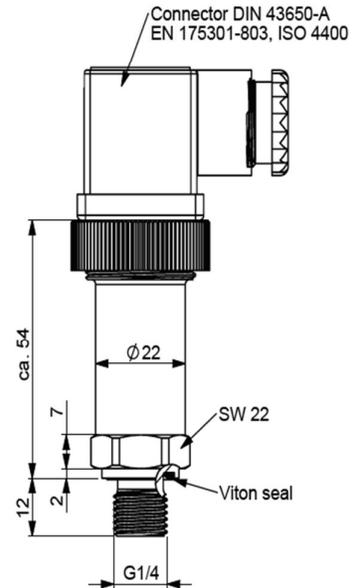
Cable assembly



Packard Metripac connector



DIN EN 175301-803 connector



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Wiring					
Type	Output	PIN 1	PIN 2	PIN 3	PIN 4
 <p>DIN EN 175301-8 03-A and C</p>	0.5 - 4.5 V , 1 - 5 V , 0 - 10 V	+ Supply	- Supply	Output +	-
	4 .. 20 mA	+ Supply	Current Output -	N / A	-
	I ² C	N / A	N / A	N / A	-
 <p>Round connector M12x1 A</p>	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
	I ² C	1 V +	2 V -	3 SCL	4 SDA
 <p>Packard Metripac</p>	0.5 - 4.5 V , 1 - 5 V , 0 - 10 V	- Supply	+ Supply	Output +	-
	4 .. 20 mA	Current Output -	+ Supply	N / A	-
	I ² C	N / A	N / A	N / A	-
<p>Cable assembly</p>	0.5 - 4.5 V , 1 - 5 V , 0 - 10 V	+ Supply	- Supply	Output +	-
	4 .. 20 mA	+ Supply	Current Output -	N / A	-
	I ² C	V +	V -	SCL	SDA

Accessories	
<p>Cooling Adapter Up to 160+ C 180 C (15 min) Pressure port input & output : G 1/4</p>	<div style="display: flex; align-items: center;">  <div> <p>Pressure Snubber Operating Temperature: -195°C to 815°C Operating Pressure: 1,379 Bar Housing : Stainless Steel 316 SS Snubbing Element: Sintered, porous type 316 SS Pressure Port : G 1/4" In & Out</p> </div>  </div>