



Main features

- Pressure range from 0...0.25 bar to 0...30 bar
- AISI 316L
- Non-compensated sensor
- Compactness
- Material in contact with fluid is AISI 316L

The PMH series measurement module is based on the piezo-resistive measurement principle. The module can be used in demanding applications because all of its components are highly stable. It is constructed entirely of AISI 316 L, which assures compatibility in applications ranging from the food and pharmaceutical industry to the process industry.

TECHNICAL DATA

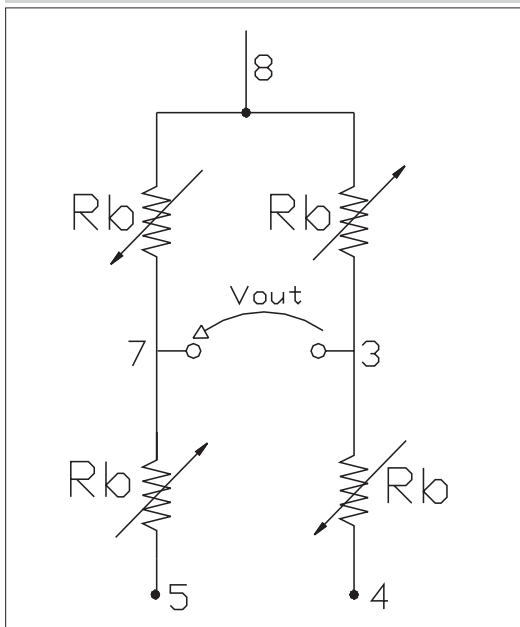
	Minimum	Typical	Maximum
Output signal	60mV	100mV	140mV
Accuracy	0.25% FS		
Measurement range	From 0..0.25 bar to 0..30 bar		
Max. applicable static pressure (without degradation)	See table on page		
Static bursting resistance	See table on page		
Jumper resistance	Typical 5 kOhm± 10 % max ±20% kOhm		
Insulation resistance at 50 Vdc	>100 MOhm		
Allowed temperature range	-40...+125°C		
Storage temperature range	-55...+130°C		
Zero thermal drift for pressures ≤1 bar in temperature range -25...+125°C	Minimum ± 0.15%	Typical ± 0.2%	Maximum ± 0.3%
Zero thermal drift for pressures > 1 bar in temperature range -25...+125°C	Typical ± 0.05%		Maximum ± 0.07%
Compensated zero thermal drift for pressures ≤1 bar(1) in temperature range -25...+85°C	Typical ± 0.04% /°C		Maximum ± 0.06% /°C
Compensated zero thermal drift for pressures > 1 bar(1) in temperature range -25...+85°C	Typical ± 0.02% /°C		Maximum ± 0.03% /°C
Full-scale thermal drift	Typical ± 0.19% /°C		Maximum ± 0.21% /°C
Compensated full-scale thermal drift in temperature range -25...+85°C	± 0.03%/°C		
Material in contact with fluid	AISI 316L		
Filling oil	Silicone		
Life	>10*10 ⁶ cycles		

(1) After resistive compensation

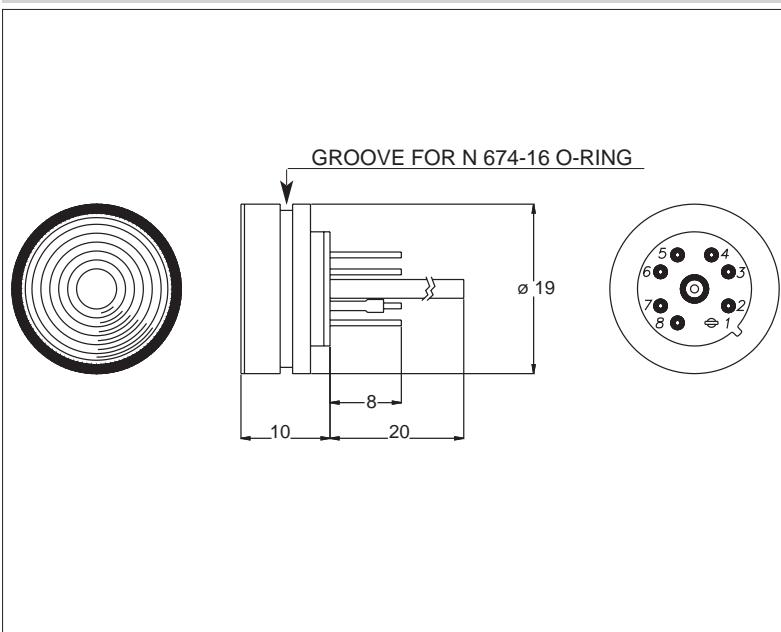
Note: all data refer to 1 mA power supply

PRESSURE RANGE bar	0.25	0.5	1	2	4	5	6	7	10	16	20	25	30
Max. applicable static pressure (without degradation)	2.5	3.5	7	10	16	20	25	30	30	48	60	75	90
Static bursting resistance	5	10	10	20	35	75	75	75	150	150	150	150	150

ELECTRICAL CONNECTIONS

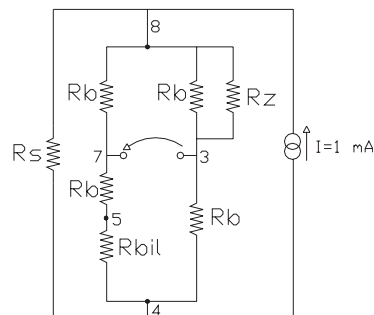


MECHANICAL DIMENSIONS



MEASUREMENT REPORT

PRESSURE [Pa]	SIGNAL [mV]	Lin. [% FS]	
0	0.00	0.000	Compensated Trange
40000	23.77	0.199	Linearity [% FS] -0.261
80000	47.32	0.253	FSO [mV] -94.17
120000	70.79	0.261	T-Hys [% FS] -0.652
160000	94.17	0.163	P-Hys [% FS] -0.063
200000	117.43	0.000	



$R_s = 23192 \Omega$

$R_p = 734511 \Omega$

$R_{bil} = 65 \Omega$

$NP = 12.33 \text{ mV}$

Repeatability [%FS] = 0.051

ORDER CODE

PMH

PRESSURE RANGE	
bar	
0...0.25	BV25
0...0.50	BV50
0...1	B01U
0...2	B02U
0...4	B04U
0...5	B05U
0...6	B06U
0...7	B07U
0...10	B01D
0...16	B16U
0...20	B02D
0...25	B25U
0...30	B03D

Mechanical and/or electrical characteristics other than standard may be requested.

OPTIONS	
N	O-Ring NBR
S	O-Ring Silicon

PRESSURE TYPE	
Relative	G

GEFRAN spa reserves the right to make aesthetic or functional changes at any time and without notice.

GEFRAN

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