

## PT-H [FD] Series Flush Diaphragm Pressure Transmitters

- CE conformity
- Reverse polarity protection
- Field adjustable output range
- Stainless steel 316L wetted parts
- Silicon oil filled, rugged construction
- Wide measuring range: 0-0.35bar to 400bar
- Output signals: 4-20mA or 0-10V, 0-5V, 0.5-4.5V
- A wide range of pressure and electrical connections



### Descriptions

PT-H [FD] series flush diaphragm pressure sensors are designed by the piezoresistive technology, and works following the piezoresistive effect. A high performance pressure transducer is used as the sensing part, the transducer is laser welded structure, silicone oil filled, and no O-ring is used inside for sealing.

PT-H [FD] series are available pressure ranges spanning from 5 psig up to 5800 psig(35KPa to 40MPa), field adjustment of both span and zero, the media working temperature range up to 100°C, offer excellent long term performance throughout the complete range of pressures.

PT-H [FD] series are designed with stainless steel 316L wetted parts, very rugged and robust, typical used in food process and industrial applications to measure the liquid and gas pressures, where the media is either viscous, or is otherwise liable to block the port of a conventional pressure transducer with a recessed diaphragm or pressure port.



### Technical data

Performance (EN 60770)

Accuracy @25°C (incl. non-linearity, hysteresis and repeatability)	±0.5% F.S.
Response time	< 4 ms
Overload pressure	2.0 × F.S. (≤ 250 bar)
	1.5 × F.S. (> 250 bar)
Pressure range	-1~0, 0~0.35...400bar
Pressure type	vented gauge, sealed gauge, absolute
Long term stability	≤0.2%F.S./Year
Temperature coefficient	±0.03%F.S./°C

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### Electrical specifications

	4-20mA Current output	0-10V, 0-5V Not Ratio-metric	Ratio-metric (10-90% of Vs.)
Supply voltage [UB]	12-36V	12-36V	5 V $\pm$ 10%
Load [RL] (load connected to 0 V)	$RL \leq (UB-12V)/0.02 A$	---	---
Polarity protected	yes	yes	yes
Short-circuit protected	yes	yes	yes

### Environmental conditions

Medium temperature range	-40°C $\rightarrow$ +100°C
Ambient temperature range (depending on electrical connection)	-20°C $\rightarrow$ +80°C
Compensated temperature range	-10°C $\rightarrow$ +70°C
EMC - Emission	EN 61000-6-3
EMC - Immunity	EN 61000-6-1
Insulation resistance	>100 M $\Omega$ at 250 V

### Mechanical characteristics

Materials	Wetted parts	Stainless steel 316L
	Enclosure	Stainless steel 304
	Electrical connections	PA66
Weight (depending on pressure connection and electrical connection)	225-500g	
Pressure connection	G1/2", PT1/2", 1/2"NPT	
Electrical connection	DIN43650A(Hirschmann), Direct cable, M12*1, LED Display	

### Dimensions

DIN43650A connection	Direct cable connection	DIN43650A connection	Direct cable connection