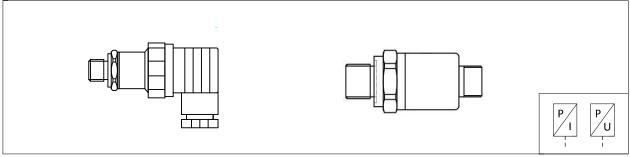


P170 High-precision Pressure Transducer

Stainless steel, compact design, max range 600bar, accuracy 0.25%FS

1. Introduction



P170 series is high-precision pressure transducer with stainless steel cases. P170 series offers a variety of measuring ranges, electrical connections, output signals and mounting threads.

2. How to order

	P170	-	400	-	F3	-	A1	-	P2	-	G1	-	W2	-	N	-	10
Ī	(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)		(9)

(see below the details)

	Product Category								
(1)	P170	nsducer							
	Measuring Pressure Range								
	050	0 - 50 bar	400	0 - 400 bar					
(2)	100	0 - 100 bar	500	0 - 500 bar					
	200	0 - 200 bar	600	0 - 600 bar					
	300	0 - 300 bar							
	Measuring Accuracy								
(3)	F2	± 0.5%FS							
	F3	± 0.25%FS							
	Output Signal (see section 3)								
	V1	0.5 - 4.5 Vdc	A1	4 - 20 mA					
(4)	V2	0 - 5 Vdc	S4	RS485 bus					
	V3	0 - 10 Vdc	C2	I2C bus					
	V4	1 - 5 Vdc	so	other signals ^{a)}					

	Supply Voltage (see section 3)						
(5)	P2	8 - 32 Vdc					
(3)	Р3	12 - 32 Vdc (for 0 - 10V output signal only)					
	РО	other voltages ^{a)}					
	Thread of Mounting Interface						
(6)	G1	G1/4					
	N1	NPT1/4 a)					
	Electric Connection (see section 5 & 6)						
(7)	W1	cable					
(7)	W2	Hirschcmann connector interface					
	W3	M12*1 areo connector interface					
	Special Requests						
(8)	N	standard					
	0	special requests (consult BMEG)					
(0)	Series No.						
(9)	10	design series No.					

3. Output signal & power supply b)

Vo	Itage Output Signal (3-wire)	Current Output Signal (2-wire)		
output singal	power supply	output singal	power supply	
0 - 10 Vdc	12 - 32 Vdc	4 - 20 mA		
0 - 5 Vdc	8 - 32 Vdc		8 - 32 Vdc	
1 - 5 Vdc	8 - 32 Vdc	4 - 20 IIIA	8 - 32 Vuc	
0.5 - 4.5 Vdc	8 - 32 Vdc			

b) Other types of output signals and power supply available, please consult BMEG.

a) Consult BMEG



4. Main technical characteristics

Overload permissible	2 times rated pressure					
•						
Pressure type	Gauge pressure					
Suitable medium	Gas or liquid which is compatible with stainless steel					
Measurement accuracy	±0.5%FS or ±0.25%FS, optional when order					
Long-term service stability	<= ±0.2% FS/year					
Fluid temperature	-40 - +125°C (consult BMEG for other temperatures)					
Zero temperature coefficient	Typical: ± 0.02% FS/°C; Maximum: ±0.05% FS/°C					
Temperature sensitivity coefficient	Typical: ±0.02% FS/°C; Maximum: ±0.05% FS/°C					
Load (Ω)	Current(2-wire): <= [(power supply voltage-7.5v)/0.02A]					
Loau (12)	Voltage(3-wire): >= 10k					
Total current consumption	Current(2-wire): Max signal current=25mA					
Total current consumption	Voltage (3-wire): 5mA					
Shock resistance	100g, half sine of final peak serrated ladder type, duration 6 ms					
Vibration resistance	<= ±0.1% FS(X, Y, Z axis, 200Hz/g)					
Insulation resistance	> 100MΩ (500Vdc excitation)					
Response time	<= 2ms					
Weight	About 150g without cable					
Resolution	Infinitesimal (theoretically), 1/100000(usually)					
Protection class	Socket type: IP65; Cable type: IP67; Waterproof type (IP68, consult BMEG)					
Electromagnetic Compatibility	EN50081-1; EN50082-2; IEC61000-4-3					

5. Electric wiring

J. Licetile Willing		
Type of connection	2-wire wiring (4-20mA output)	3-wire wiring (voltage output)
W1	red (power supply +) (output) black	red(power supply+) (output) green black(GND)
W2	(power supply+) 1	(power supply +) (GND) (output)
W3	(power supply +) 2. 11 3. 4 (output)	(power supply +) (GND) (output)

6. Mounting dimension

