



**PT210B/ PT210 series pressure transmitter / transducer**



**Features & Applications**

- Combined Error less than  $\pm 0.5\%$
- Stainless-steel sealed
- Small volume, OEM available
- Excellent stability & repeatability

**ISO9001:2000**



Adopted high-performance sensor chip, PT210B /PT210 series pressure transducer/transmitter with high performance, small volume and integrated construction are widely used in hydraulic pressure system, medical apparatus and instruments, constant-voltage water supply system, etc.

**Specification**

Range	0-1bar-2000bar
Accuracy	$\pm 0.25\%FS$ , $\pm 0.5\%FS$
Excitation voltage	24Vdc or 8-36Vdc
Output	4-20mA,0-10V,0-5V,0-20mA
Repeatability	$\pm 0.09\%FS$
Load resistance	1000 ohms $\pm 10\%$
Temperature	-40°C~125°C (104°F~257°F)
Over pressure	1.5 $\times$ FS
Electrical connection	Hirschman or Navigate connector,M12, Leading wire
Load resistance	500 $\Omega$ @10~36 Vdc
Explosion-proof grade	Exia II CT4
Process connection	G1/4, M14 $\times$ 1.5, M18 $\times$ 1.5,M20 $\times$ 1.5,G3/4,special design
Response time	(10...90%FSO)< 1 msec.
Start-up time	< 500 msec

**Ordering Guide** : PT210B- 2bar- G1/4- 4- D1-24-0.5%-S

Means : Pressure transmitter, 0-2bar pressure range , G1/4 thread screw, 4-20mA output, DIN43650A small head, 24Vdc power supply, 0.5% accuracy, 22mm and 46mm dimension

**Body Dimension**

S= 22mm outside diameter  
46mm body length  
B=28mm outside diameter  
50mm body length

**Type**  
210=Transducer (mV output)  
210B=Transmitter (mA,V output)

PT210B — X- X - X - X - X - X

**Range**  
1.5K=1bar=0.1MPa  
3K=2bar=0.2MPa  
6K=4bar=0.4MPa  
1.5C=10bar=1MPa  
2.3C=16bar=1.6MPa  
3C=20bar=2MPa  
3.5C=25bar=2.5MPa  
5C=35bar=3.5MPa  
6C=40bar=4MPa  
7.5C=50bar=5MPa  
1M=70bar=7MPa  
1.5M=100bar=10MPa  
3M=200bar=20MPa  
5M=350bar=35MPa  
6M=400bar=40MPa  
7.5M=500bar=50MPa  
10M=700bar=70MPa  
15M=1000bar=100MPa  
23M=1600bar=160MPa  
30M=2000bar=200MPa

**Process Connector**  
M14=M14 x 1.5  
M18=M18 x 1.5  
M20=M20 x 1.5  
M22=M22 x 1.5  
1/2=1/2"-20UNF  
G1/4=G1/4  
G1/2=G1/2  
G3/4=G3/4

**Power Supply**

Transmitter:	Transducer
24=24Vdc	10= 10 Vdc
8=8~36Vdc	

**Accuracy**  
0.5% $\pm 0.5\%FS$   
0.25% $\pm 0.25\%FS$

**Output Signal**

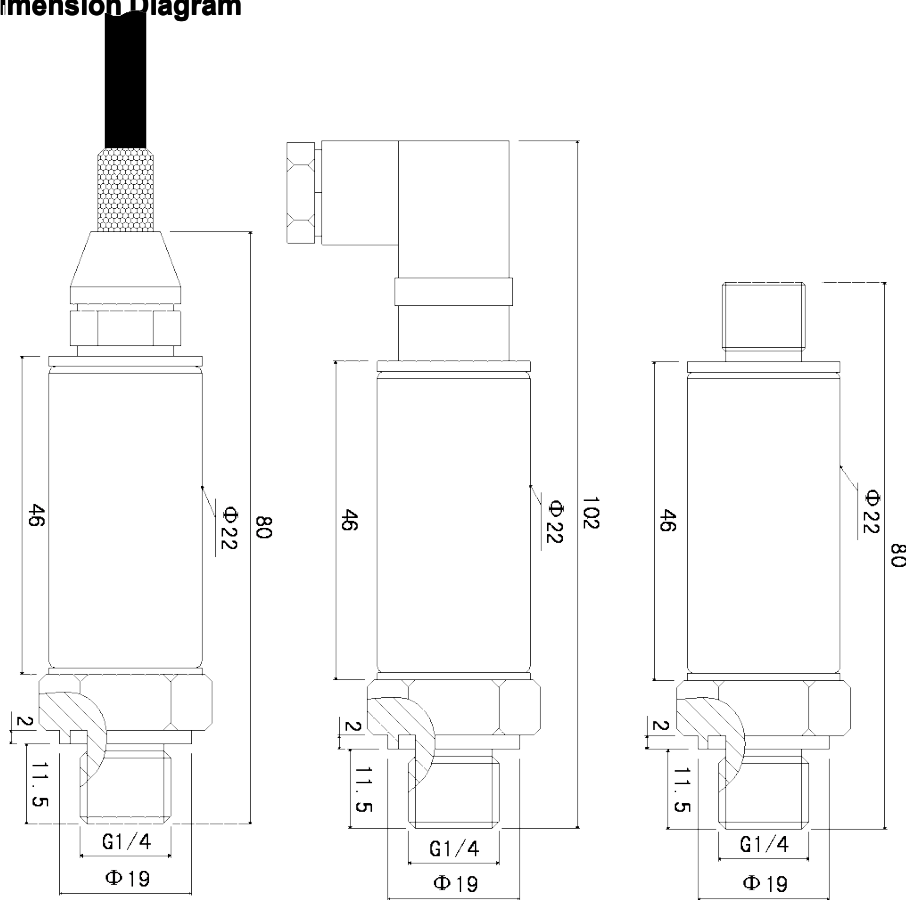
Transmitter	Transducer
4=4/20mA	1.5 =1.5mV/V
5 = 0/5V	2.0=2.0mV/V
6 = 0/10V	2.5=2.5mV/V
7= 0/20mA	3.33=3.33mV/V

**Electronic- Connector**  
A= 6PIN  
B= 8PIN  
C= M12  
D1=DIN43650A (Small Head)  
D2=DIN43650C (Big Head)  
E=Direct Leading wire -1 meter

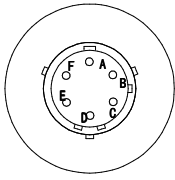
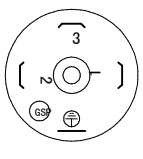
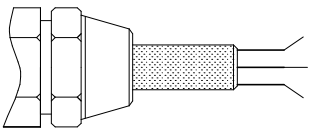
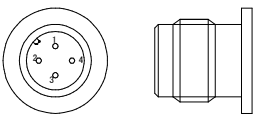


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### Dimension Diagram



### Electronic Connection

Output Type	Function	Colour	6PIN		Output Type	Function	Colour	6PIN
Output: 3.33mV/V 0-5V; 0-10V	Signal +	Blue	A		Output: 4-20mA	Power +	Red	A
	Signal -	Green	B			Power -	Blue	B
	Power +	Red	C					
	Power -	Yellow	D					
Hirschman DIN Output: 3.33mV/V 0-5V;0-10V	Power+	Red	1		Hirschman DIN Output: 4-20mA	Power+	Red	1
	Signal+	Blue	2			Power -	Black	2
	Power -/ Signal -	white	3					
Direct Leading Wire Output: 3.33mV/V 0-5V;0-10V	Signal +	Blue			Direct Leading Wire Output: 4-20mA	Power +/Signal +	Red	
	Signal -	Green				Power -/Signal -	Black	
	Power +	Red						
	Power -	Yellow						
M12 connector Output: 3.33mV/V 0-5V;0-10V	Power+	Red	1		M12 connector Output: 3.33mV/V 0-5V; 0-10V	Power+/ Signal+	Red	1
	Signal-	Blue	3			Power-/ Signal-	Black	3
	Power -/ Signal -	Black	4					