

Instructions

High Temperature Strain Gauge Pressure Sensor

PT210HT/PT210HH



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Summary

PT210HT/PT210HH is of all stainless steel structure, and the imported high temperature resistant pressure sensor is selected as the signal measurement sensitive element, The measured medium pressure is transmitted to the sensor through the heat dissipation structure on the transmitter, and the sensor probe can work stably at 200 $^{\circ}$ for a long time, This product is widely used in the measurement and control of liquid and steam pressure in high temperature field

Feature

Accuracy can be 0.25% F.S Compact stainless steel housing package Protection level IP65 Multiple E-connection optional Heat dissipation structure design, can withstand medium and high temperature

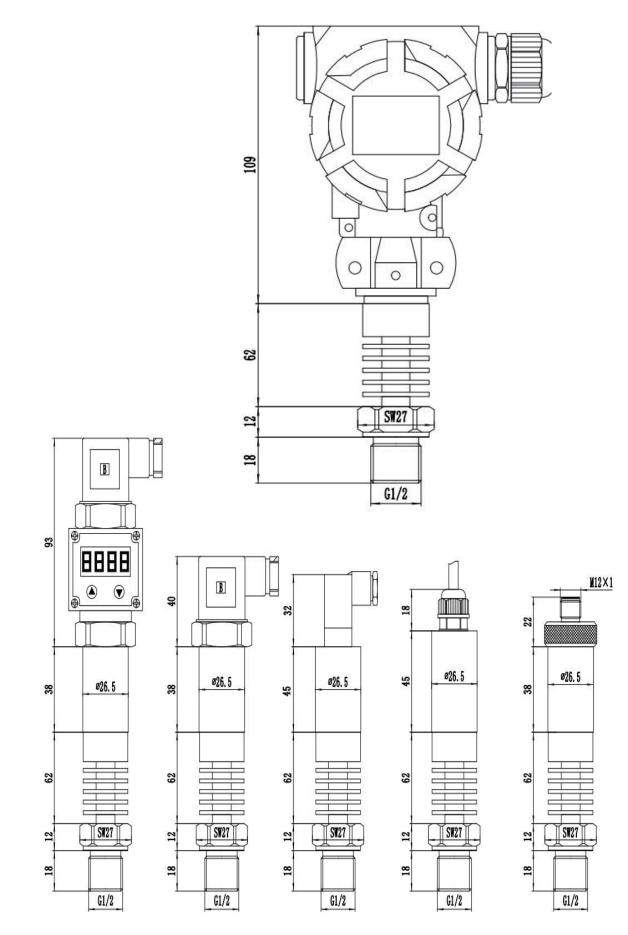
Application

Measurement of high temperature fluids such as steam and hot oil Measurement and control of boiler industry Medical high temperature and high pressure disinfection

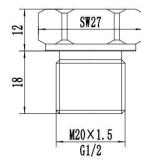
Specification

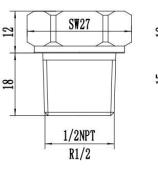
Pressure range	0~700 bar(0~70MPa)								
Pressure type	Gauge pressu	re							
Accuracy	0.5% F.S; 0.259	sure 5% F.S 3-wire 0~10V 3-wire 0~10V 0~5V 0.5~4.5V 12~32Vdc 10~32Vdc 5Vdc 2 >20k >20k a),Hirschmann, PACK connector,water-proof connector v4NPT,1/2NPT,M20x1.5,R1/4,R1/2,d1/4 etc ed pressure							
Electrical Performance	2-wire	3-wire 0~10V	3-wire	3-wire					
Output signal	4~20 mA	0~10V	0~5V	0.5~4.5V					
Power supply	6.5~32Vdc	12~32Vdc	10~32Vdc	5Vdc					
Overload resistance	<(U-6.5)/0.02	>20k	>20k	>20k					
E-connection	M12x 1(4-pin),Hirschmann, PACK connector,water-proof connector								
Process connection	G1/4,G1/2,1/4NPT,1/2NPT,M20x1.5,R1/4,R1/2,G1/4 etc								
Overload pressure	4~20 mA 0~10V 0~5V 0.5~4.5V 6.5~32Vdc 12~32Vdc 10~32Vdc 5Vdc <(U-6.5)/0.02 >20k >20k >20k M12x 1(4-pin),Hirschmann, PACK connector, Forof connector G1/4,G1/2,1/4NPT,1/2NPT,M20×15,R1/4,R1/2kH etc G1/4,G1/2,1/4NPT,1/2NPT,M20×15,R1/4,R1/2kH etc 1.5 times rated pressure -20~200 °C -20~80 °C IP65 <10msec -10msec -10msec								
Diaphragm Temp	Gauge pressure 0.5% F.S; 0.25% F.S 2 -wire 3 -wire 0 ~10V 3 -wire $4~20$ mA $0~10V$ $0~5V$ $0.5~4.5V$ $6.5~32Vdc$ $12~32Vdc$ $10~32Vdc$ $5Vdc$ $(U-6.5)/0.02$ $>20k$ $>20k$ $>20k$ $M12x 1(4-pin)$ -Hirschmann, PACK connector, were proof connector $srate - 10^{-10}$ $f.1/4,G1/2,1/4$ -NPT, $1/2$ NPT, $M20x$ is $1/4,R1/2$. Het 1.5 times rate pressure $-20~200^{-C}$ $-20~80^{-C}$ 10^{-2} is 1.5								
Electrical Temp	-20~80 [°] C								
Protection degree	IP65			5V 0.5~4.5V ~32Vdc 5Vdc 20k >20k nnector,water-proof connector					
Response time	≤10msec		0~5V 0.5~4.5V 10~32Vdc 5Vdc >20k >20k PACK connector,water-proof connector						
Long term stability	0.2% FS / year								

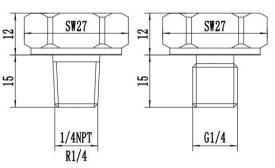
Dimension

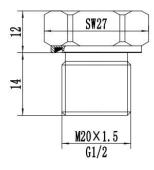


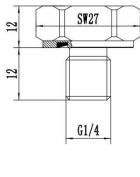
Process connection

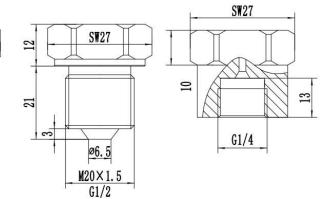












E-connection

Hirschmann I	Hirschmann DIN 175301-803 A											
Current Voltage												
(G.	U+	1/red	1/red									
(C³ ó [)	0V		2/black									
L'E	S+	2/black	3/green									

Hirschmann	DIN 17	75301-803 C	
	irschmann DIN 175301-803 C Current Current Jo O I U+ Z OV St 2/black		Voltage
	U+	1/red	1/red
(30 0 0)	0 V		2/black
¹	S+	2/black	3/green

Round conne	ctor 4	-pin M12 x 1	
		Current	Voltage
	U+	1/brown	1/brown
$\begin{pmatrix} \begin{pmatrix} 2 \circ & \circ 1 \\ 3 \circ & \circ 4 \end{pmatrix} \end{pmatrix}$	0 V		4/black
	S+	3/blue	3/blue

Leading wire, S	hielde	ed	
		Current Voltage U+ red 0V black	
	U+	red	red
	0V		black
	S+	black	green

Metric-Pack 15	0 serie	s (3-pin	
		Current	Voltage
Ţ	U+	B/red	B/red
	0V		A/black
	S+	A/black	C/green

Ordering guide

Series code		Х	-	Х	-	Х	-	Х	-	Х	-	Х	-	Х	-	Х	-	Х
Due du et ture e	Compact housing	PT210HT	1		1		1		1		1		1		1		1	
Product type	2088 housing	PT210HH	1															
Duasauna unit	bar	<u>`</u>	1	В	1													
Pressure unit	MPa		1	м	1													
Pressure range	Pressure range value x				1	Х	1											
	G1/4						1	G1/4	1									
	1/4NPT						1	1/4NPT	1									
	G1/2						1	G1/2	1									
Process	M20 x1.5						1	M20										
connection	R1/4						1	R1/4	1									
	R1/2						1	R1/2	1									
	1/2NPT						1	1/2NPT	1									
	G1/4 female						1	G1/4C	1									
	4~20mA (the output of housing 2088,an	ly choxxse t	hi5)						1	МА	1							
Outrust	0~10VDC								1	10V	1							
Output	0~5VDC								1	5V	1							
	0~5VDC 0.5~4.5VDC								1	4V	1							
	Hirschmann connector (DIN 175301-803	C)									1	2D	1					
	Hirschmann connector (DIN 175301-803	; A)									1	1D	1					
	M12×1 4-pin round connector										1	Т	1					
E	Packard connector										1	PA	1					
E-connection	water-proof connector leading wire X m	eters									1	мх	1					
	Hirschmann connector with LED										1	3D	1					
	2088 housing with LCD display										1	-	1					
	2088 housing.no display										1	NX	1					
Matarial	SUS304 (Standard)												1	-	1			
Material	SUS316L										1	3L	1					
	Standard end face sealing														-	1		
Sealing way	way End face sealing with damping															N	1	
	Taper sealing													1	Z	1		
A	0.5%F.S																1	-
Accuracy	0.25%F.S																1	2A