

Conventional Type Melt Pressure Transducer

Description

SAND PT1XXX series pressure transducers are ideal for the measurement of melt pressure in extrusion processes at temperatures up to 400 C. The main applications are plastics extrusion and rubber, spinning systems and equipment for manmade fibers, petrochemical industries and so on. Optional thermocouple or RTD configurations are available. Electrical connection 5PIN and 6PIN option.

Features

- ◆ Better than 1.0% accuracy
- ◆ Standard diaphragm Inconel
- ◆ TiN or TiAlN coating option
- ◆ Internal 80% shunt calibration
- ◆ 0-35 to 0-2000 bar / 0-500 to 0-30000 psi
- ◆ 4~20mA, 0~20mA, 0~10V, 0~5V outputs
- ◆ Maximum diaphragm temperature up to 400 \checkmark
- ◆ Connector 5PIN for PT1XX
Connector 6PIN for PT1XX6
- ◆ 1/2-20 UNF, M18x1.5, M22x1.5 standard threads; other types available on request

PT1XXX SERIES



Over 27 years of experience
manufacturing sensors

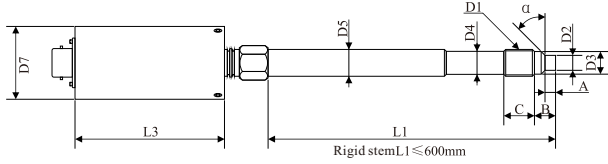
Full 2 year warranty

Specifications

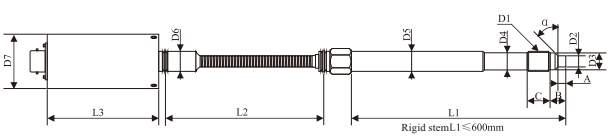
Pressure range	0~35 to 2000bar(0~500 to 0~30000psi)
Accuracy	1.0% FS
Repeatability	0.8% FS
Input excitation	10Vdc recommended, 12Vdc maximum
Output signal	2.0mV/V for 5PIN, 3.33mV/V for 6PIN
Maximum diaphragm temperature	662 F (350C) for rigid stem
Zero shift due to temperature change	40 psi/100C
Process connection	1/2-20 UNF thread (45 \checkmark conical seal) M14x1.5, M18x1.5, M22x1.5 etc
Maximum Overload Pressure Rating	1.5 x FSO
Pressure Units	PSI, Bar, Mpa or Kg/cm ²
Internal Shunt Calibration	80% FSO
Measurement principle	4-arm bonded foil strain gage Wheatstone bridge
Electrical Connection	5PIN or 6PIN
Temperature Sensor (optional)	E, J, K, S type or Pt100

Mechanical Dimensions

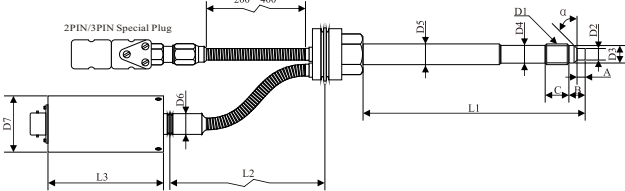
PT1116



PT12X6

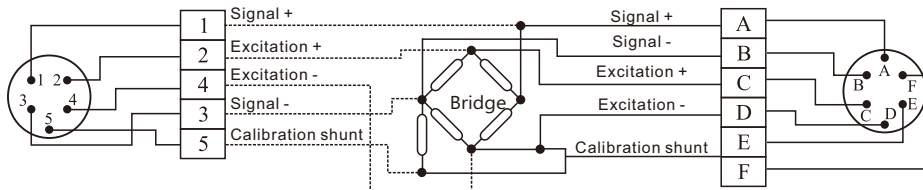


PT1316



D1	M12×1.5	M14×1.5	1/2" -20	M18×1.5	M22×1.5	M28×1.5	G3/4"	PF3/8"	1 1/2-16"	3.25"	3.5"
D2	φ 7.8	φ 7.8	φ 7.8	φ 9.8	φ 9.8 φ 15.8	φ 17.8	φ 17.8	φ 9.8	φ 23.5	φ 23.5	φ 23.5
D3	φ 10	φ 11.8	φ 10.5	φ 15.5	φ 19.5	φ 24	φ 24	φ 14	φ 33.5	φ 33	φ 33
D4	φ 10	φ 12	φ 10.8	φ 16	φ 19.5	φ 25	φ 24	φ 14			
D5	φ 11.7	φ 13.8	φ 12.7	φ 17							
D6	Standard dimension φ17; other dimensions can be customized										
D7	Standard dimension φ38; other dimensions can be customized										
α	Standard angle 45°/90°; other angle can be customized										
A	5.5	5.5	5.5	6	10	11	11	8	13	13.5	13.5
B	11	12.5	12	14	16	17	17	12	21	51	61
C	17	17	17	20	35	28	40	25	37	19	19
L1	Standard dimension 150mm; other dimensions can be customized										
L2	Standard dimension 470mm; other dimensions can be customized										
L3	Standard dimension 78mm; other dimensions can be customized										
Seal	45° slopes					plain end face			flange installation		

Electrical Connections



Ordering Guide

PT 1XXXX-XXX-XXX-XXX/XXX-X-XXX

