Melt Pressure Transducer

Model: PT124G-121 (Flexible stem)



Description

PT124G-121 Series Melt Pressure Transducer. This model adopts special construction and excellent alloy elastic membrane to reduce the thermal draft ,improve the accuracy, good anti-jamming performance andt built in 80% shunt calibration, it can match our N series pressure instrument also can match the pressure instrument or controller of other brand . It is suitable for pressure measuring and controlling in melt fluid medium, such as the plastic & polymer in the process equipments. Can replace Dynisco / Gefran /GP50 etc. international brand absolutely .

Application

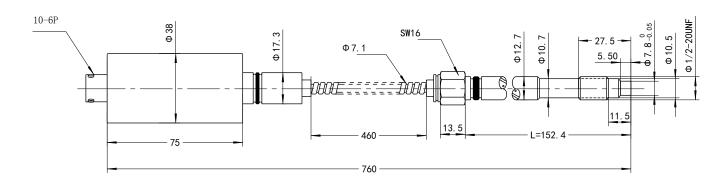
- Chemical fiber Equipment
- Plastic and Rubber manufacturing equipment
- ◆ Medicine & Food process equipment
- Measurement and Control all kinds of melt fluid

Feature

- Stainless steel welding
- Easy to install
- ◆ Zero and span adjustable
- Various amplified signals optional
- Internal 80% shunt calibration
- Good stability and anti-jamming capability
- Excellent stability and repeatability



Dimension



ZHYQ Sensor & Control Page 1 of 4

Melt Pressure Transducer

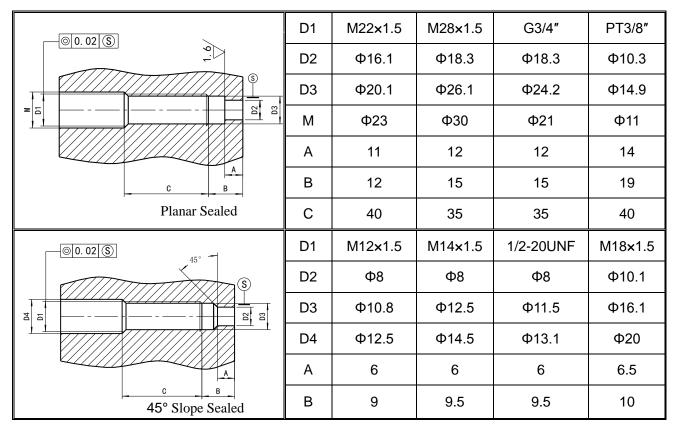


Specification					
Pressure range:	03.5 MPa to 0150MPa				
Output:	2mV/V; 3.33mV/V				
Input voltage:	10 (6~12V) DC				
Accuracy:	±1.0%FS; ±1.5%FS (including linearity, Repeatability & Hysteresis)				
Repeatability:	±0.2% FSO				
Construction:	Wheatstone bridge				
Bridge resistance:	Input: 345 Ohms Minimum; Output: 350 Ohms±10%				
Overload pressure:	1.5xFSO				
Internal shunt calibration:	80%±1%				
Insulation Resistance:	200Megohms @100Vdc				
Standard wetted Parts	Diaphragm coated 15-5PH SST				
Mounting Torque	500inch/lbs , maximum				
Max. Diaphragm Temp:	0~400℃				
Electronic operating temperature:	-25℃ -85℃				
Electric connector:	5PIN ,6 PIN				
Rigid Length:	6",9" (Customer design)				
Flexible Length:	18", 30" (Customer design)				

1/2"-20UNF, M14×1.5, M18×1.5 (Customer design)

Mounting Hole

Process connection:



Ordering Guide

Model	Range (bar)	Output	Rigid & flexible length (inch)	Screw Thread	Electric connection	Accuracy	Others	
PT124G-121								
Example: PT124G-121-500Bar-2mV/V -6/18"-1/2-20UNF-5PIN-1.0%FS								

ZHYQ sensor & control Page 2 of 4

Operating instruction



Attention for installation

1, Installation

Do not remove protective cap until ready to install. Prior to initial installation, verify correct machining of mounting hole. Install with aluminum gasket. The electronics housing should be secured, with the enclosed mounting bracket.

2, Remove

Make sure that there is no remained metal or plastic; remove all of the transducers from the equipment before you clean the extruder. You can remove the transducer only when the polymer is molten. And clean the diaphragm of the transducer with soft cloth as soon as you remove it. At the same time, you can use ZHYQ's cleaning tool kit to clean the remained material in the mounting hole in order to install easily next time.

3, Start-up

Bring system to operating temperature, and with no pressure, follow recommended procedures with instrumentation for zero and span adjustment. Make sure that there is sufficient "soak time" to assure that any material at the tip of the transducer is molten before process is started.

4, Electrical house

The tip of the transducer can endure high temperature, but the shell (electrical house) only endure temperature lower than 80°C, so it should place in the room temperature. It can benefit for the accuracy and natural life of the transducer if you keep the shell from the high temperature.

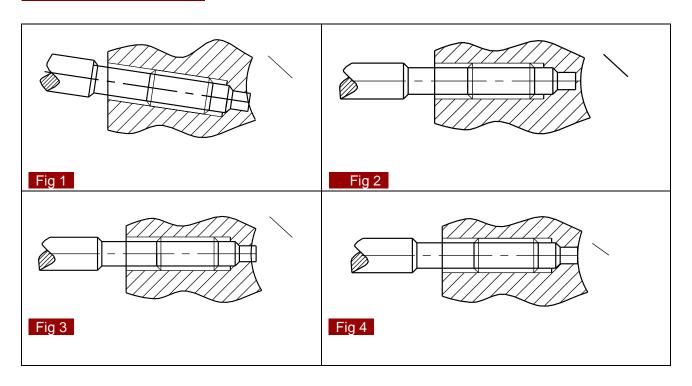
5, Overload effect

During the course of pressure measuring and controlling, it is better to make sure the transducer within the rated pressure, too long time overload the pressure will affect the accuracy and natural life of transducer, although the transducer own determinate overload ability.

6, Wiring

Use shielded cable, attach cable shield to ground at one end only. In order to prevent the jamming.

Select correct installation



ZHYQ sensor & control Page 3 of 4

Melt pressure transducer



Wiring diagram

Output	Function	Color	5PIN	
2mV/V; 3.33mV/V	Signal +	Blue	1	
	Excitation +	Red	2	
	Signal -	White	3	$\left(\begin{array}{c} \left(\begin{pmatrix} O & O \\ 2 & 1 \\ O & O \\ 4 & O & 3 \end{pmatrix} \right) \end{array} \right)$
	Excitation -	Yellow	4	Q Q Q 3 3 4 Q 5 3 4 Q 5 3 4 Q 5 5 3 4 Q 5 5 3 4 Q 5 5 3 4 Q 5 5 4 Q 5
	Calibration	Black	5	
Output	Function	Color	6PIN	
2mV/V; 3.33mV/V	Signal +	Blue	А	
	Signal -	Green	В	
	Excitation +	Red	С	F OA B
	Excitation -	Yellow	D	
	Calibration	Brown	E	
	Calibration	Black	F	

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ZHYQ sensor & control

Page 4 of 4