

Auto-zero Adjustment Melt Pressure Transmitter



Model: PT124B-112D/112DT

Description

PT124B-112D/112DT Series rigid stem melt pressure transmitter is designed with auto-zero adjustment function, it can realize the automatic calibration and amendment with one button on the top of the electrical house of the pressure transmitter, in order to reduce the consuming of manpower, cost of calibrating equipment, and save operating time. The model PT124B-112DT comes with thermocouple, it can be used to measure the pressure and temperature in one point. The amplifier output is 4-20mA, which can directly contact with PLC. This series is suitable for pressure measuring and controlling of melt fluid medium, such as the plastic & polymer in the process equipments.



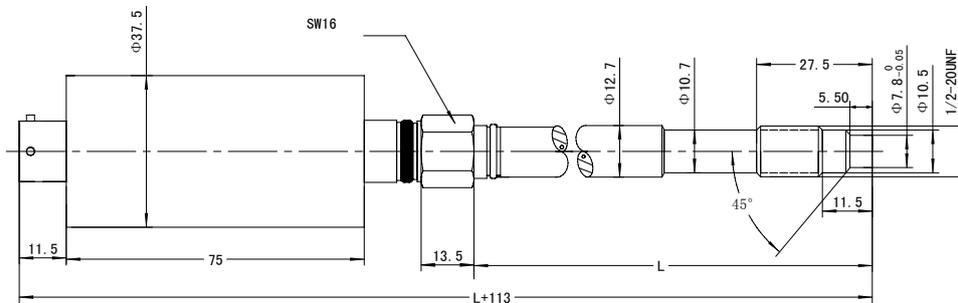
Application

- ◆ Chemical fiber & spinning Equipment
- ◆ Plastic and rubber, polyester process equipment
- ◆ Other pressure measurement and Control

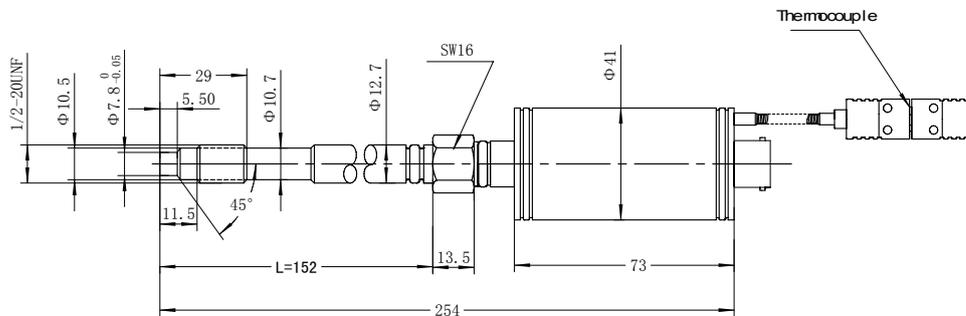
Feature

- ◆ High-standard quality
- ◆ Auto-Zero functionality
- ◆ No span or zero pots
- ◆ Simple Installation
- ◆ Completely interchange similar import products
- ◆ Internal 80% calibration
- ◆ Excellent stability

Dimension



PT124B-112D



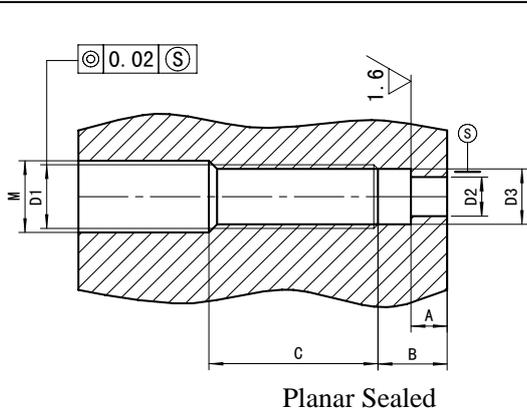
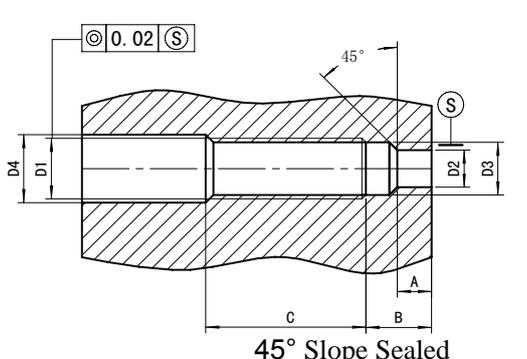
PT124B-112DT



Specification

Range:	0...3.5MPa to 0....150MPa
Output:	4-20mA
Accuracy:	±0.5%FS; ±0.25%FS optional
Input voltage:	14~36V DC
Repeatability:	±0.2% FSO
Construction:	Four-arm bonded foil wheatstone bridge strain gauge
Load Resistance:	0-1100 ohms
Overload pressure:	2×FSO
Internal Shunt Calibration (R-cal):	80% FSO±1%
Insulation Resistance:	1000 megohms @ 50Vdc
Standard wetted parts:	15-5PH
Electronic operating temperature:	-25°C -85°C
Zero Shift due to temperature change:	±0.04%FS Max
Sensitivity due to temperature change:	±0.05%FS Max
Max. Diaphragm Temp:	300°C
Thermocouple:	J,K,E,PT100 Optional (PT124B-112DT)
Electric connection:	5PIN, 6PIN
Process connection:	1/2"-20UNF, M14×1.5, M18×1.5 (Customer design)

Mounting hole

 <p>Planar Sealed</p>	D1	M22×1.5	M28×1.5	G3/4"	PT3/8"
	D2	Φ16.1	Φ18.3	Φ18.3	Φ10.3
	D3	Φ20.1	Φ26.1	Φ24.2	Φ14.9
	M	Φ23	Φ30	Φ21	Φ11
	A	11	12	12	14
	B	12	15	15	19
	C	40	35	35	40
	 <p>45° Slope Sealed</p>	D1	M12×1.5	M14×1.5	1/2-20UNF
D2		Φ8	Φ8	Φ8	Φ10.1
D3		Φ10.8	Φ12.5	Φ11.5	Φ16.1
D4		Φ12.5	Φ14.5	Φ13.1	Φ20
A		6	6	6	6.5
B		9	9.5	9.5	10

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.

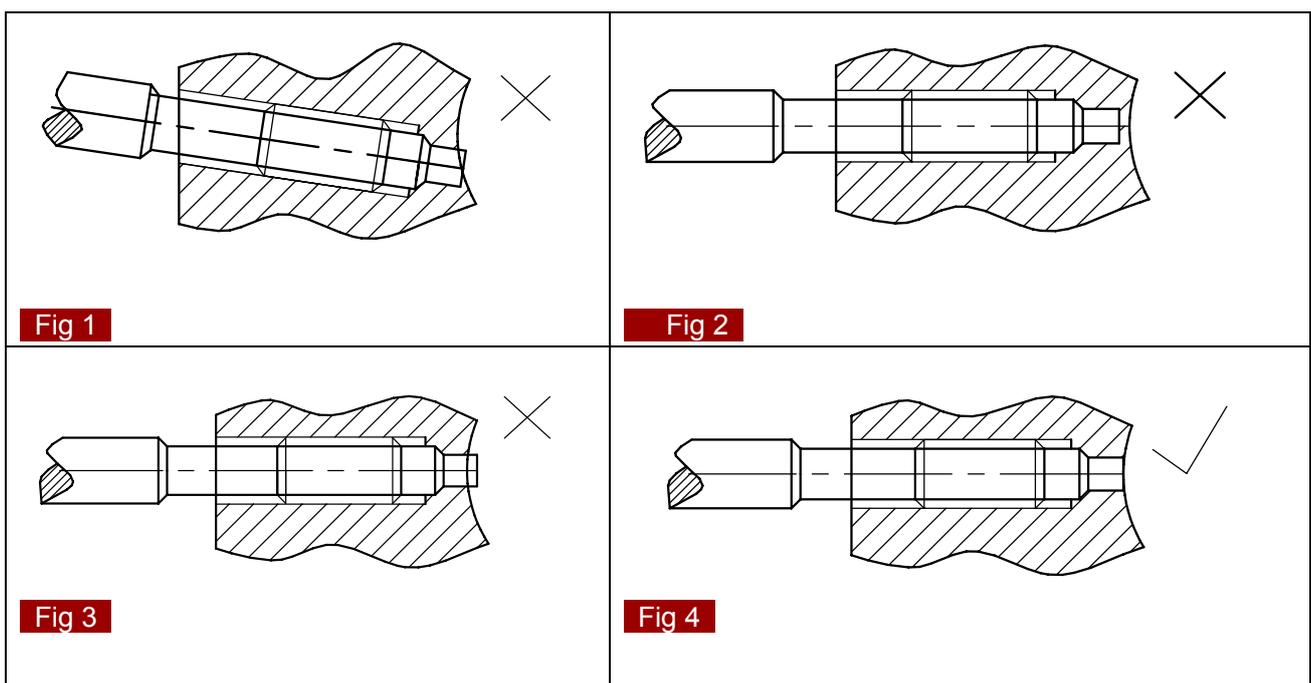
5, Overload effect

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.

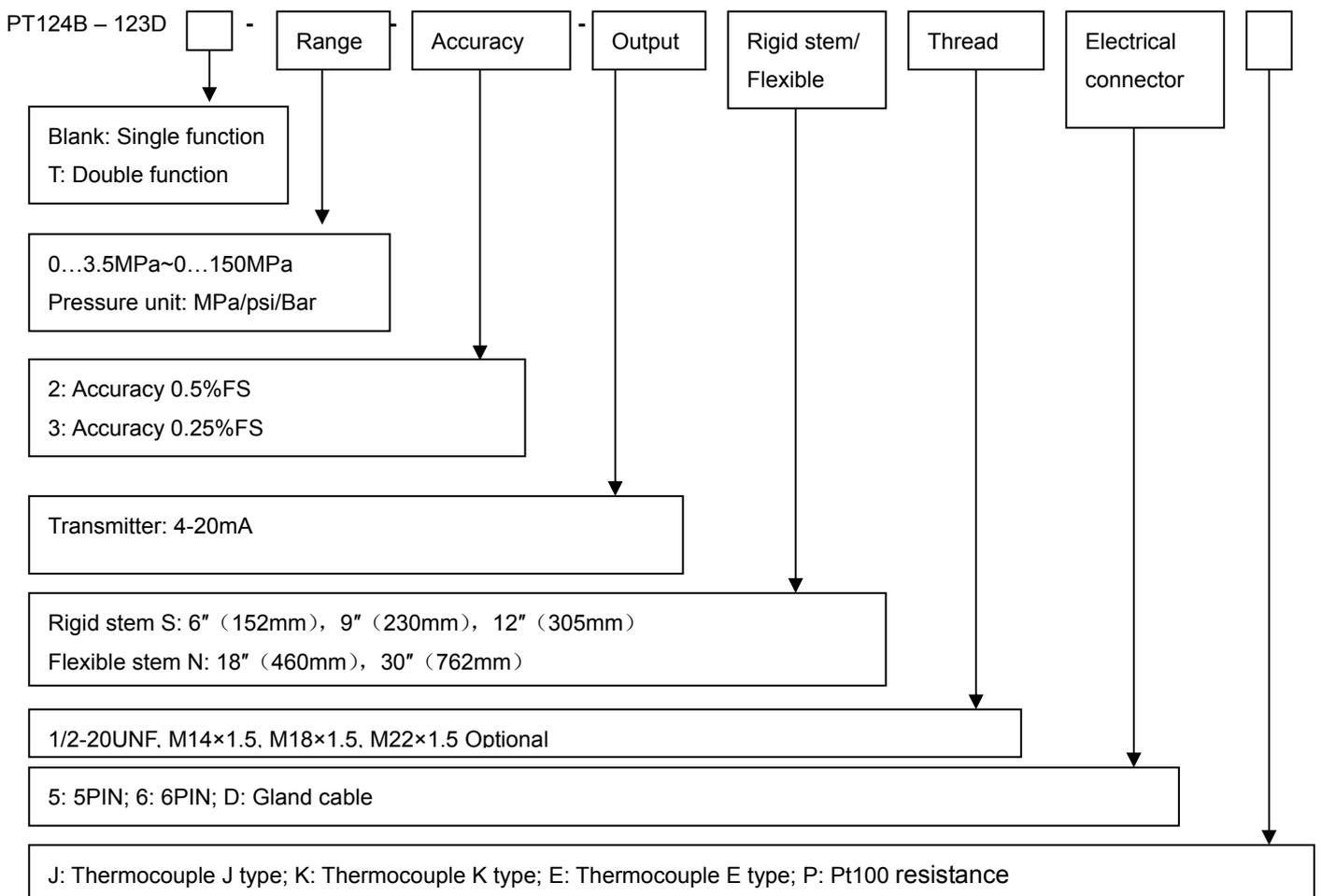
Select correct installation



Wiring diagram

Output	Function	Color	5PIN
4/20mA	Signal+	Blue	1
	Excitation+	Red	2
	Calibration	Yellow	4
	Calibration	Black	5
Output	Function	Color	6PIN
4-20mA	E+ / S+	Red	A
	E- / S-	Blue	B
	Calibration	Yellow	E
	Calibration	Black	F

Ordering Guide



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