

# Melt Pressure Transmitter Data Sheet

## Industrial Pressure Transmitter

### Model: CMPT124B-113

#### Introduction

◆ CMPT124B-113 Series Melt Pressure Transducer (rigid stem & sanitary) is sanitary type, and it can be widely used in Medicine & Food process equipment. Zero & span can be adjustable; with amplified signal can be connected with PLC. It has the advantages of high precision and reliable, good quality, internal 80% calibration.

#### Application

- ◆ Chemical fiber Equipment
- ◆ Plastic and Rubber manufacturing equipment
- ◆ Medicine & Food process equipment, etc
- ◆ Other pressure measure and control

#### Features:

- ◆ High-standard quality
- ◆ Stainless steel Seal
- ◆ Simple Installation
- ◆ Adopt environmental and non-toxic material
- ◆ Internal 80% calibration
- ◆ Excellent stability and repeatability

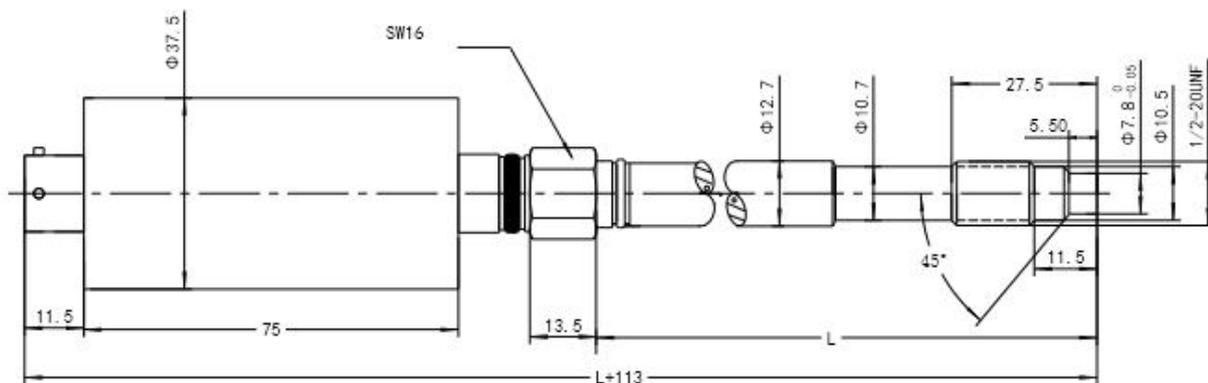


RoHS

CE



#### Dimensions(mm):



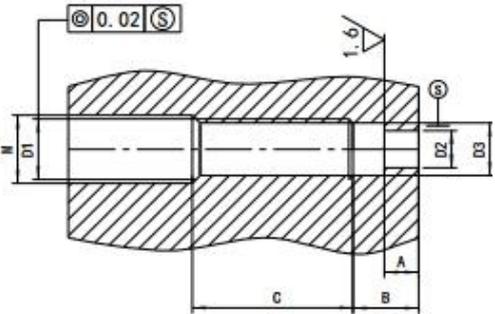
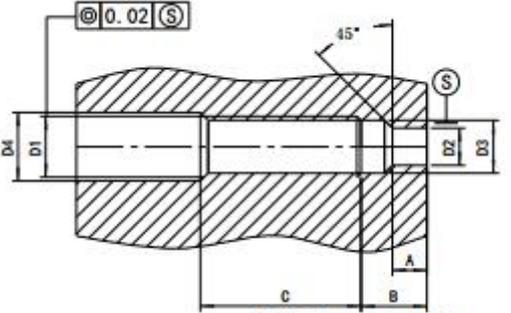
#### Technical Characteristics

Model	CMPT124B-113
Range	0...10MPa to 0...150MPa (0...1500psi to 0...20000psi)
Output	0~5V; 0~10V; 4-20mA

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Accuracy	$\pm 1\%FS$
Input voltage	24VDC (12~36)VDC
Repeatability	$\pm 0.2\%$
Construction:	Wheatstone bridge
Bridge resistance	350 ohms $\pm 10\%$
Overload pressure	$1.5 \times FSO$
Internal calibration	$80\%FSO \pm 1\%$
Insulation Resistance	1000Megohms @50Vdc
Max. Diaphragm Temp	0~260°C
Electric connector	5PIN, 6PIN
Process connector	1/2" -20UNF, M14×1.5, M18×1.5 (Customer design)

## Mounting hole

 <p style="text-align: center;">Planar Sealed</p>	D1	M22*1.5	M28*1.5	G3/4"	PT3/8"
	D2	Φ 16.1	Φ 18.3	Φ 18.3	Φ 10.3
	D3	Φ 20.1	Φ 26.1	Φ 24.2	Φ 14.9
	M	Φ 23	Φ 30	Φ 21	Φ 11
	A	11	12	12	14
	B	12	15	15	19
	C	40	35	35	40
 <p style="text-align: center;">45° Slope Sealed</p>	D1	M12*1.5	M14*1.5	1/2-20 UNF	M18*1.5
	D2	Φ 8	Φ 8	Φ 8	Φ 10.1
	D3	Φ 10.8	Φ 12.5	Φ 11.5	Φ 16.1
	D4	Φ 12.5	Φ 14.5	Φ 13.1	Φ 20
	A	6	6	6	6.5
	B	9	9.5	9.5	10

## Attention for installation

◆ **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.

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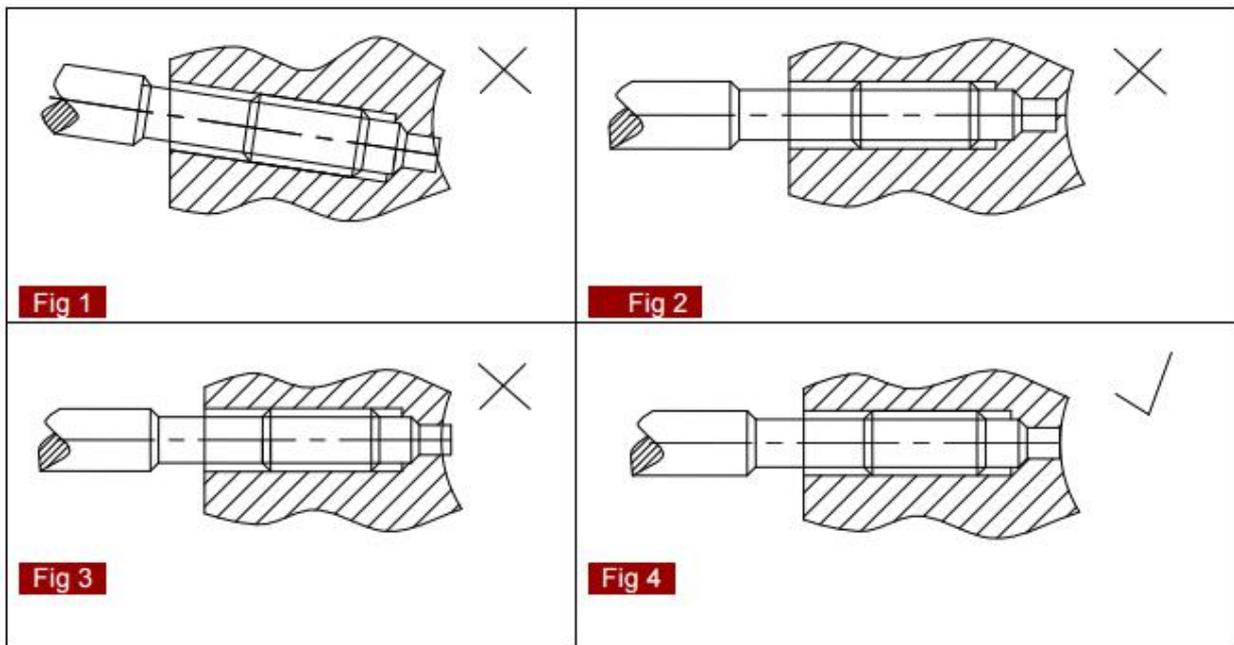
◆ **Remove** Make sure that there is no remained metal or plastic; remove all of the transducers from the equipment before you clean the extruder. You can remove the transducer only when the polymer is molten. And clean the diaphragm of the transducer with soft cloth as soon as you remove it. At the 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.

◆ **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.

◆ **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.

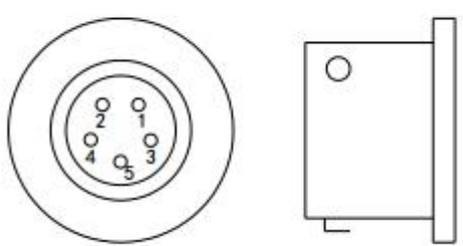
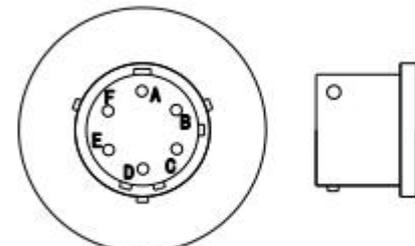
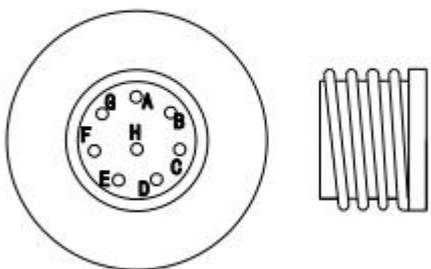
◆ **Overload effect** During the course of pressure measuring and controlling, it is better to make sure the transducer within the rated pressure, too long time overload the pressure will affect the accuracy and natural life of transducer, although the transducer own determinate overload ability.

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



## Wiring diagram

# Melt Pressure Transmitter Data Sheet

<b>Output</b>	<b>Function</b>	<b>Color</b>	<b>5PIN</b>	
0/5V,1-5V;	Signal +	Blue	1	
0/10V	Excitation +	Red	2	
0/0.5V	Signal -	White	3	
2.0mV/V	Excitation -	Yellow	4	
	Calibration	Black	5	
<b>Output</b>	<b>Function</b>	<b>Color</b>	<b>5PIN</b>	
4/20mA	Signal+	Blue	1	
	Excitation+	Red	2	
	Calibration	Yellow	4	
	Calibration	Black	5	
<b>Output</b>	<b>Function</b>	<b>Color</b>	<b>6PIN</b>	
0-5V;1-5V;	Signal +	Blue	A	
0-10V;	Signal -	Green	B	
0/0.5V	Excitation +	Red	C	
3.33mV/V	Excitation -	Yellow	D	
	Calibration	Brown	E	
	Calibration	Black	F	
<b>Output</b>	<b>Function</b>	<b>Color</b>	<b>6PIN</b>	
4-20mA	E+ / S+	Red	A	
	E- / S-	Blue	B	
	Calibration	Yellow	E	
	Calibration	Black	F	
<b>Output</b>	<b>Function</b>	<b>Color</b>	<b>8PIN</b>	
0-5V;1-5V;	Excitation +	Red	A	
0-10V;	Signal +	Blue	B	
0/0.5V	Excitation -	Yellow	C	
3.33mV/V	Signal -	Green /White	D	
	Calibration	Brown	E	
	Calibration	Black	F	
	Blank	--	G, H	
<b>Output</b>	<b>Function</b>	<b>Color</b>	<b>8PIN</b>	
4-20mA	E+ / S+	Red	A	
	E+ / S+	Blue	B	
	Calibration	Yellow	E	
	Calibration	Black	F	



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## Ordering Guide

Model	Range (bar)	Output	Screw Thread	Electric connection	Accuracy	Diameter (mm)	Other requirement
CMPT124B-113	*	*	*	*	*	*	---

Example: CMPT124B-113-500Bar-4/20mA-1/2-20UNF-6PIN

