

# Melt Pressure Transmitter Data Sheet

## Standard Melt Pressure Transmitter for Industry

### Series: CMPT112B/CMPT123B/CMPT133B

#### Introduction

- ◆ CMPT112B/CMPT123B/CMPT133B Series high precision Melt Pressure Transmitter (Flexible stem & Rigid stem & High accuracy), it is specially designed for pressure measurement at high temperature in the injection molding industry, special diaphragm material and high anti-abrasive coating of which enable it to work normally at high temperature up to 400°C.
- ◆ Zero & full span can be adjustable, amplified signal can be connected with PLC, which is the international standard. It is suitable for pressure measuring and controlling in melt fluid medium, such as the plastic & polymer in the process equipment.
- ◆ It can replace Dynisco / Gefran /GP50 / Onehalf20 etc. international brand absolutely.

#### Application

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

#### Features:

- ◆ Rigid stem or flexible structure
- ◆ Zero & full scale adjustable
- ◆ Stainless steel Seal
- ◆ Simple Installation
- ◆ Multiple amplifying signal output available
- ◆ Completely interchangeable similar import products
- ◆ Internal 80% calibration
- ◆ Excellent stability



RoHS



#### Technical Characteristics

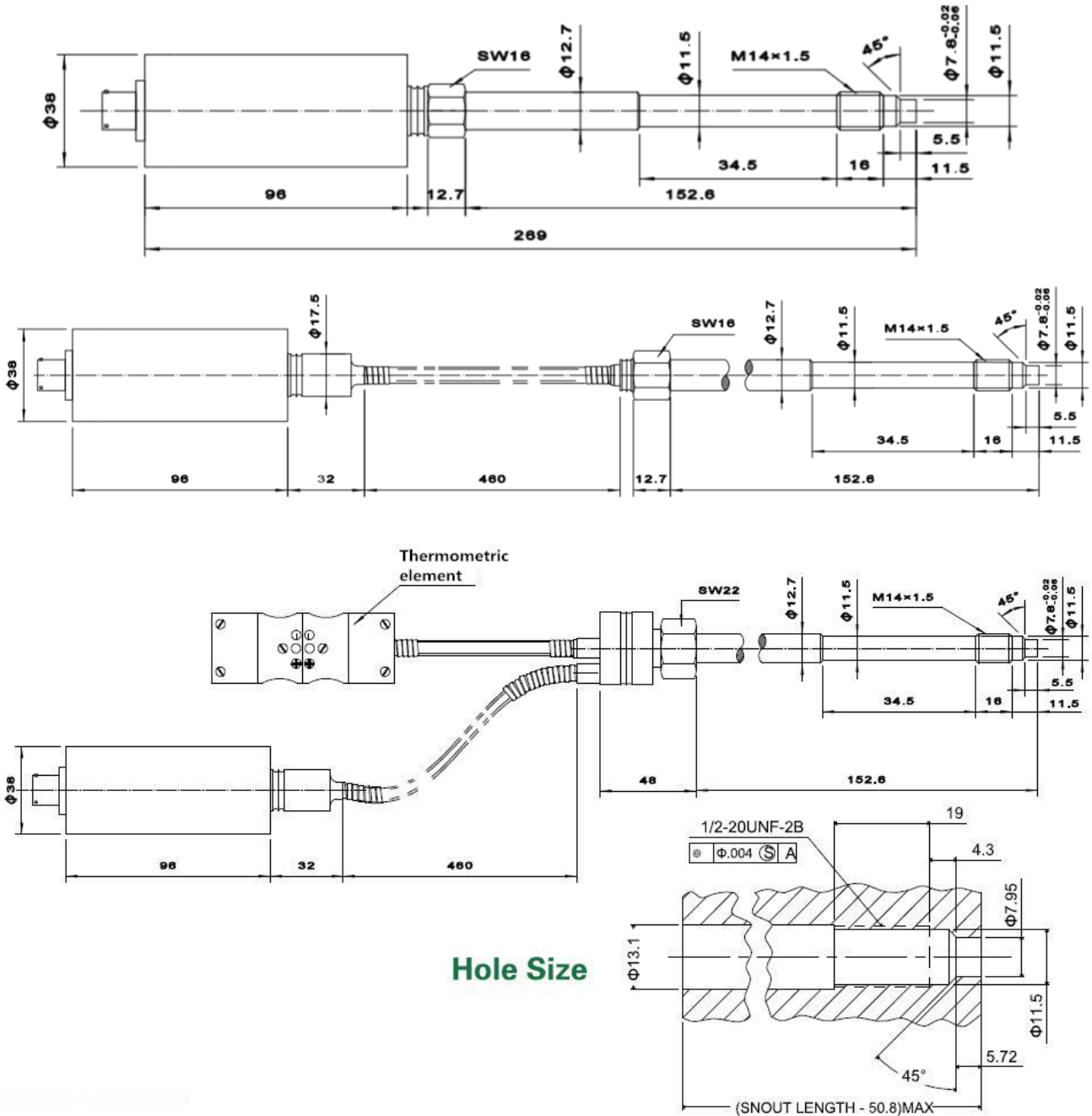
Pressure range	0~35bar~2000bar
Output	0~5V; 0~10V; 4-20mA
Accuracy	±0.5%FS
Input voltage	24VDC (12~36) VDC
Repeatability	±0.1%FS
Bridge resistance	350 Ω±10%, 1000 Ω±10%
Overload pressure	1.5×FSO
Internal calibration	80%FSO±1%
Temperature components	PT100, E, J, K

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## Data Sheet

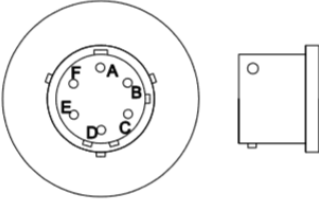
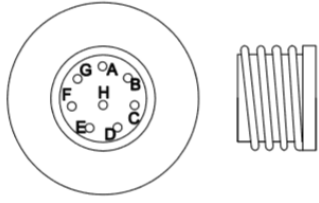
Diaphragm Material	17-4PH, 15-5PH, Inconel 718
Max. Diaphragm Temp	0~400°C
Load resistance	500Ω@26Vdc; 1000Ω @36Vdc
Electric connector	6 PIN or 8 PIN aviation connector
Process connector	1/2"-20UNF, M14×1.5, M18×1.5, M22X1.5 Customer design)

### Dimension



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## Electric connection

Electric connection							
Signal Output	Function		6 PIN		Signal Output	Function	6 PIN
Output: 0-5V; 0-10V	Signal +		A		Output: 4-20mA	Power +	A
	Signal -		B			Power-	B
	Power +		C			CAL	E
	Power-		D			CAL	F
	CAL		E				
	CAL		F				
Signal Output	Function		8 PIN		Signal Output	Function	8 PIN
Output: 0-5V; 0-10V	Power +		A		Output: 4-20mA	Power +	A
	Signal +		B			Power-	B
	Signal -		C			CAL	E
	Power-		D			CAL	F
	CAL		E				
	CAL		F				
			G				

## 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.

◆ **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.



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

## Ordering Guide

Model	Range (bar)	Output	Screw Thread	Electric connection	Accuracy	Diameter (mm)	Other requirement
CMPT123B-	*	*	*	*	*	*	---

