

HPM129A-112/112T Melt Pressure Transmitter Instruction Book



Nanjing Hangjia Electronic Technology Co.,Ltd.

Overview

HPM129A Series Melt Pressure Transducer can achieve the pressure and temperature measuring. This series adopt special material and alloy elastic membrane to low down temperature draft and improve accuracy. The zero & full span can be calibrated, with amplify signal be connected with PLC, and internal 80% calibration. It has the wide application in high-temp liquid pressure measurement and control such as Chemical & Fiber equipment, polyester equipment, etc.

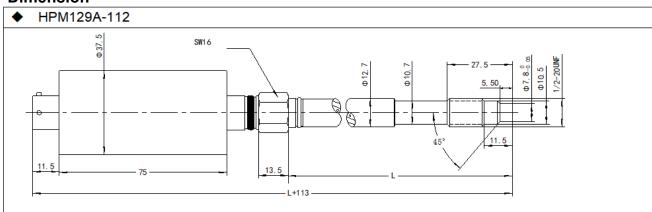
Application

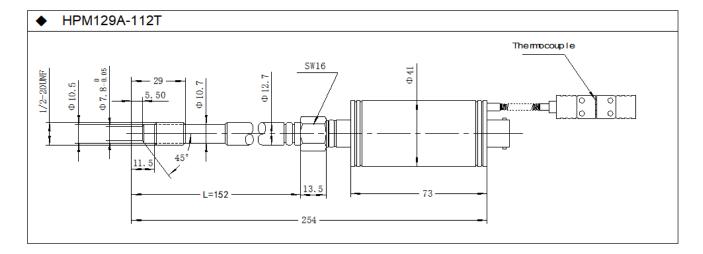
- ♦ Fiber Equipment
- Plastic and Rubber manufacturing equipment
- ◆ Other melt pressure measurement and Control

Feature

- ♦ High accuracy
- Stainless steel welding
- ♦ Easy to install
- ♦ Internal 80% calibration
- Excellent stability and repeatability

Dimension



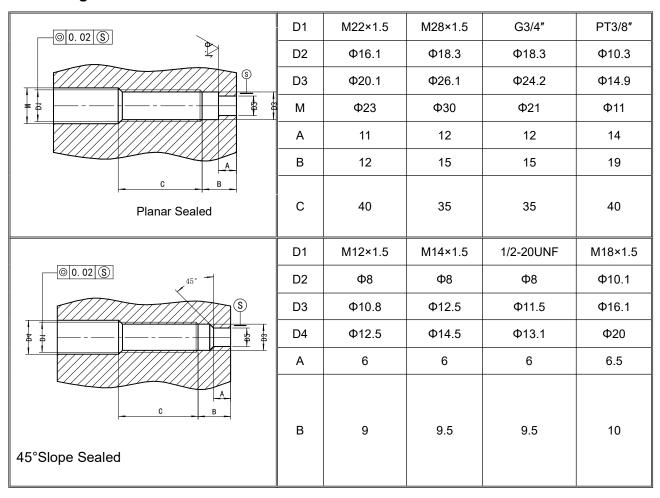


Remarks: L=152, 228, 305

Technical Parameters

Range	010Mpa to 0150MPa (01500psi to 020000psi)
Output	3.33mV/V; 2mV/V
Accuracy	±0.5%FS
Excitation	10VDC
Repeatability	±0.2%
Diaphragm material	15-5PH
Bridge resistance	350 ohms±10%
Overload pressure	1.5×FSO
Internal calibration	80%FSO±1%
Insulation Resistance	1000Megohms @50Vdc
Max. Diaphragm Temp	350℃
Electric connector	5PIN, 6PIN, 8PIN
Process connector	1/2"-20UNF, M14×1.5, M18×1.5 (Customer design)

Mounting Hole



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 HIGHJOIN'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

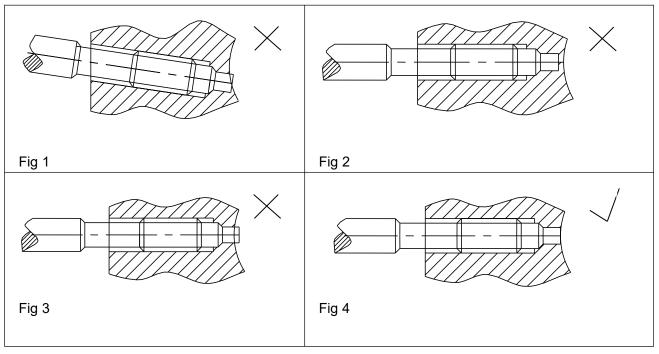
The tip of the transducer can endure high temperature, but the shell (electrical house) only endure temperature lower than 80° C, so it should place in the room temperature. It can benefit for the accuracy and natural life of the transducer if you keep the shell from the high temperature.

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	
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	$\left(\begin{array}{c} \left(\begin{array}{c} O & O \\ O & O \\ A & O \end{array}\right) \end{array}\right)$
Output	Function	Color	5PIN	$\left(\begin{array}{c} \begin{pmatrix} 2 & 1 \\ 0 & 4 \\ 0 & 3 \end{pmatrix}\right)$
4/20mA	Signal+	Blue	1	
	Excitation+	Red	2	
	Calibration	Yellow	4	
	Calibration	Black	5	
Output	Function	Color	6PIN	
0-5V;1-5V;	Signal +	Blue	Α	
0-10V;	Signal -	Green	В	
0/0.5V	Excitation +	Red	С	
3.33mV/V	Excitation -	Yellow	D	
	Calibration	Brown	Е	
	Calibration	Black	F	
Output	Function	Color	6PIN	
4-20mA	E+/ S+	Red	Α	
	E-/ S-	Blue	В	
	Calibration	Yellow	E	
	Calibration	Black	F	
Output	Function	Color	8PIN	
0-5V;1-5V;	Excitation +	Red	Α	
0-10V;	Signal +	Blue	В	
0/0.5V	Excitation -	Yellow	С	
3.33mV/V	Signal -	Green	D	
		/White		
	Calibration	Brown	Е	
	Calibration	Black	F	(F H B)
	Blank		G, H	
Output	Function	Color	8PIN	
4-20mA	E+/ S+	Red	Α	
	E+/ S+	Blue	В	
	Calibration	Yellow	Е	
	Calibration	Black	F	

Ordering Guide

Item	Model No.						
1100 44 20 4	112						
HPM129A	112T (with temperature)						
	Measuring Pressure Range						
	0···3.5MPa~0···150MPa						
		Code	Output				
			Signal				
		1	2mV/V				
		2	3.33mV/V				
			Code	Thread			
			P1	M14×1.5			
			P2	1/2-20UNF			
			Р3	M18×1.5			
			P4	M22×1.5			
				0.4.	Rigid Probe		
				Code	Length		
				L6	6"(152mm)		
				L9	9"(230mm)		
				L12	12"		
				LIZ	(305mm)		
					Code	Electrical	
						Connection	
					C1	5 Pin Plug	
					C2	6 Pin Plug	
					C3	Cable gland	
						Code	Temperature
							signal type
						N	N/A
						J	Type J
						K	Туре К
						E	Type E
						Р	PT100
						J5	0.5%FS
Example:	HPM129A-112-5Mpa-3.33m	ıV/V-1/2-2	20UNF-6PIN				



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