



Melt Pressure Transmitter

PT110FB&PT120FB&PT130FB Series Explosion-Proof



Applications

Extruder Industry Injection Industry

Characteristic

- * Signal output:4~20mA,4~20mA+Hart protocol
- * Intrinsically safe type: Exia II CT4 Ga
- * Accuracy grade:0.5%F.S
- * Special diaphragm coating

* Special electronic design, super strong antiinterference

Description

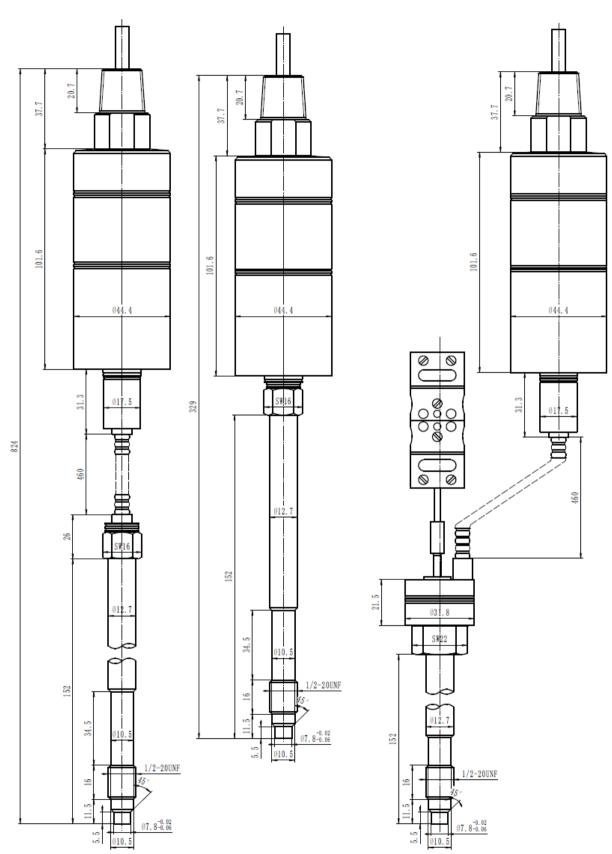
MPS Series is widely used in polymer industry requiring easy installation, good repeatability. It's various signal outputs such as mV/V, 0-5V, 0-1OV or 4-20 mA are able to be connected with many pressure display. This series can also be quipped with temperature measurement component like E,J,K thermocouple. MPS series transducer adopts standart 1/2"-20 UNF thread. The MPS series product technology is widely accepted by peers all over the world.

TECHNICAL PARAMETERS		MECHANICAL AND SEALING CHARACTERISTICS					
Power Supply	mV/V: 10 V DC(recommended), mA or V : 24V DC	Transducer Technology	Bonded Wheatstone and Wheatstone bridge				
Signal Output	3.33mV/V, 0-5V, 0-10V or 4-20mA	Diaphragm Temperature	750° F(400°C), at most				
Accuracy	±0.25% FS, ±0.5% FS, ±1% FS	Diaphragm Materials	5 Different Diaphragm Options				
Repeatability	±0.2% FS	Progress Connection	1/2 – 20 UNF and M14 × 1.5, M16 × 1.5, M18 × 1.5 Thread				
Working Temperature	mV/V, mA: 185° F (85"c)	E – connection	5 PIN,6 PIN,7 PIN,8 PIN				
Overload Ability	2x FS	Install Torque	500 in/lbs , at most				
Pressure Range (bar)	0-35 Bar2000Bar	Temperature Transducer (optional)	E/J/K/PT100 Type Thermocouple Matches With 3" Flexible Conduit				
Pressure Unit	psi, Bar, kPa or MPa	Certification	Patented				
Zero Adjustment (±% FS)	mV/V: No, mA: ± 20%	Certification	CE Certified				
Zero Balance Design (±% FS)	mV/V: ± 10%: mA: ± 0.5%	Recommend Fitting					
Zero Drift (caused by progress temperature change)	1.5bar/100º F(3bar/100º)	Install Tools	Component GJ				
Bridge Resistance	mV/V: 345 Ω, at least	6 Pin E – connection	Component CON06				
Overload Resistance	mA: 1100 Ω, at most	Matching Connection					
Insulation Resistance	mV/V: 1000MΩ @50 Vdc mA: 100M Ω @50 Vdc	Fix Frame (electric device)	Spares No.:ZJ, cable Fitting, indicator				
Shunt Calibration (R-Cal)	80% FS ± 1% FS	•	•				





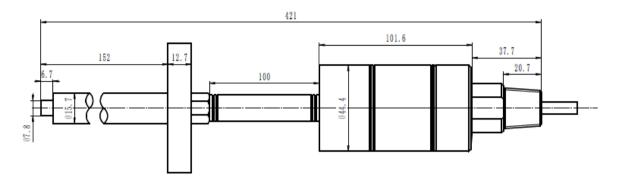
Dimension

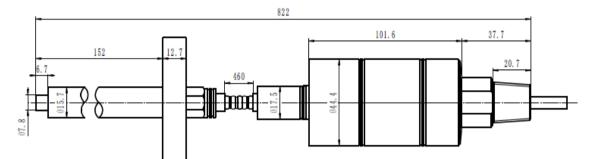


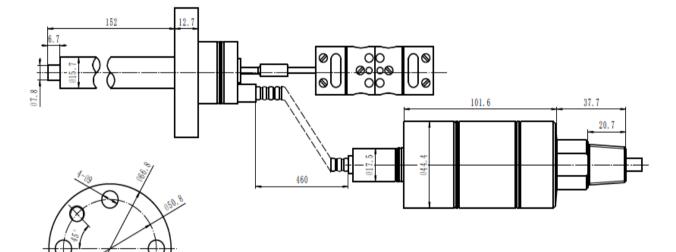




Dimension



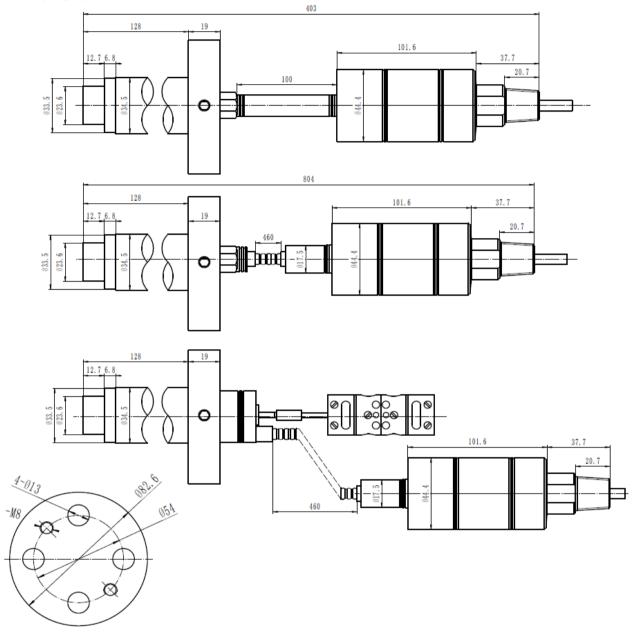








Dimension



E-Connection

Lead-Wire	2-Wire	Cable Colour			
	E+	Red			
	E-	Black			
	GND	Green			

6-PIN Connector	Current Output Signal(4-20mA)						
	Α	В	С	D	E	F	
	E+	E-			CAL	CAL	
	Red	Black			Blue	Orange	

Note:E refers to power supply;GND refers to ground wire





Ordering Code

Series Cod	e PT									
D 1	Rigid Stem Type 110FB									
Product Type	Flexible Type 120FB									
	Double 130FB									
	Measurement Type									
Pressure Range	1MPa 10bar 150psi 1.5C									
	2MPa 20bar 300psi 2C	-								
	3.5MPa 35bar 500psi 5C 7MPa 70bar 1000psi 7.5C	-								
	5MPa 70bai 1000psi 7.5C 5MPa 50bar 750psi 1M	-								
	10MPa 100bar 1500psi 3M	-								
	20MPa 200bar 3000psi 5M	-								
	35MPa 350bar 5000psi 7.5M	-								
	50MPa 500bar 7500psi 10M									
	70MPa 700bar 10000psi 10M									
	100MPa 1000bar 15000psi 15M									
	140MPa 1400bar 20000psi 20M									
	200MPa 2000bar 30000psi 30M									
	1/2-20UNF	1/2"								
Process Connection	M18×1.5	M18								
Connection	66.8 flange connection	6F								
	82.6 connection	8F								
	5 inches (127mm)		5							
	6 inches (152mm)		6							
Rigid Stem Length	9 inches (229mm)		9							
	12.5 inches (318mm)		12							
	15 inches (381mm)		15							
	18 inches (460mm)		18	-						
	18 inches (460mm)			/18						
Flexible Length	24 inches (610mm)			/24						
0	30 inches (760mm)			/30						
Connection Rigid Stem ength Flexible ength Signal Dutput Femp. Aeasurem ent Connection	4~20mA				mA					
Output	4~20mA+hart				н					
	Ј Туре					J				
Temn	К Туре К									
Temp. Measurem	E Type E									
ent	Three wire Pt100					RTD1				
_	6 pin standart aviation connector						6P			
E- Connection	· · · · · · · · · · · · · · · · · · ·									
Accuracy	0.25%									
Grade	0.50%									
D '	Standart (17-4PH)								Blank	
Diaphragm Type	Hastelloy								C2	
	Inconel 718								17	
Special Code	Standard version special or customized vers	ions availabl	le on requ	est						00