



Characteristic & Applications

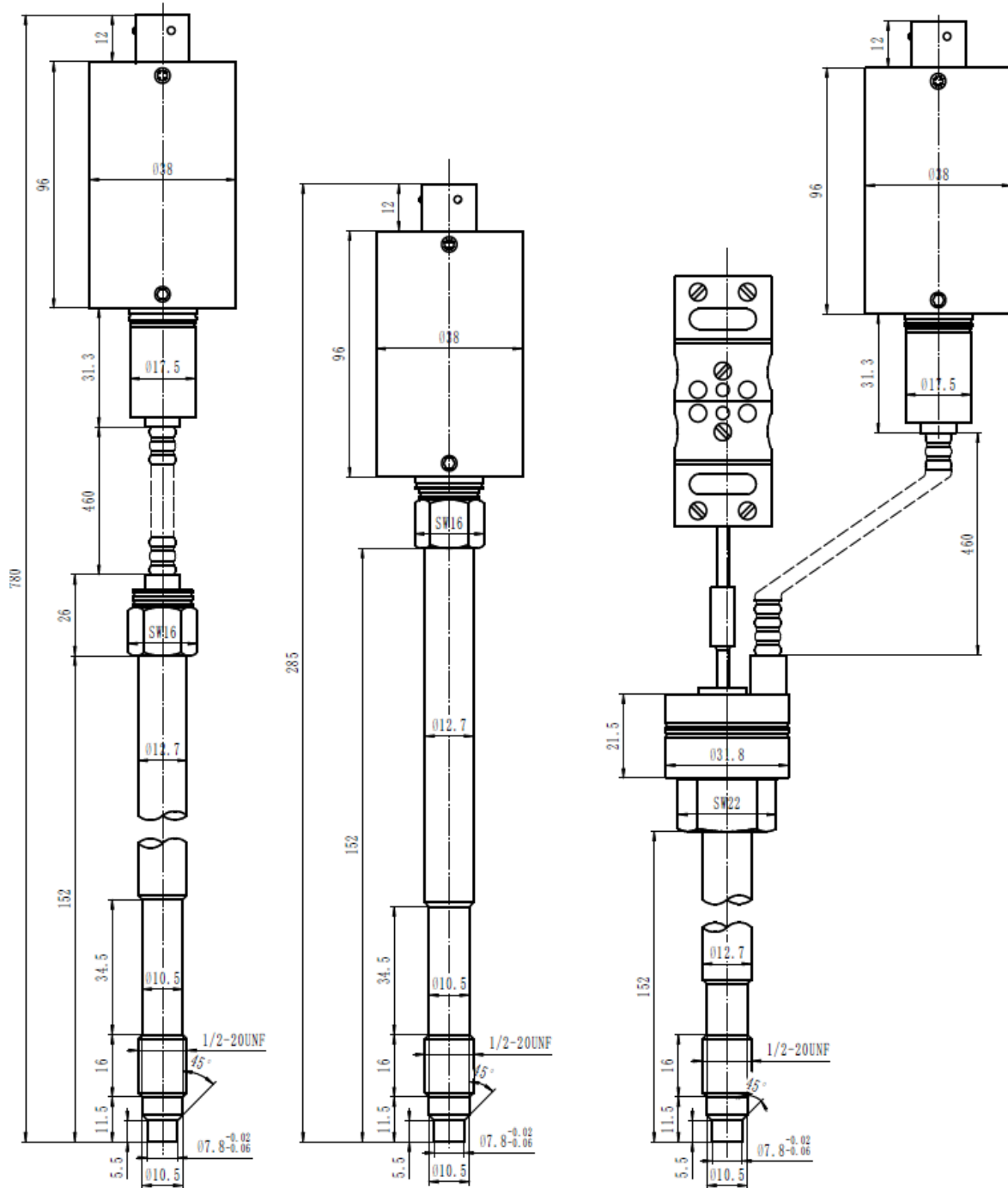
- Different Signal Output Options: mA, or V or mV / V
- ZERO and SPAN Setting
- More Durable with INCONEL 718 Alloy Membrane
- High Stability
- Accurate measurement
- Long life
- Resistant to Parasites
- 80% Internal calibration
- Good stability and repeatability
- Different Thermocouple Options: J Type, K Type, E Type, PT100

Description

MPS PTE Series is widely used in plastic industry requiring easy installation, good repeatability. It's various signal outputs such as mV/V, 0-5V, 0-10V 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 PTE Series transducer adopts standart 1/2"-20 UNF thread. The MPS PTE 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 Bar---2000Bar	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/100° F(3bar/100°)	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



E-Connection 6PIN

Current Output Signal (4-20mA)					
A	B	C	D	E	F
E+	S+			CAL	CAL
red	black			blue	orange

Voltage Output Signal (0-5V,0-10V,mV)					
A	B	C	D	E	F
S+	S-	E+	E-	CAL	CAL
red	black	white	green	blue	orange

Note: S represents signal output; E represents power supply; CAL represents calibration.

Ordering Code

Series Code			PTE																	
Version	Rigid Stem			D																
	Rigid Stem+Flexible			R																
	With Termocouple			S																
Pressure Range	3.5Mpa 35bar 500psi			5C																
	10MPa 100bar 1500psi			1.5M																
	20MPa 200bar 3000psi			3M																
	35MPa 350bar 5000psi			5M																
	50MPa 500bar 7500psi			7.5M																
	70MPa 700bar 10000psi			10M																
	100MPa 1000bar 15000psi			15M																
	140Mpa 1400bar 20000psi			20M																
	200Mpa 2000bar 30000psi			30M																
Thread	1/2-20UNF						1/2													
	M18×1.5						M18													
Snout Length	6 inches (152mm)						6													
	9 inches (229mm)						9													
	12.5 inches (318mm)						12													
	15 inches (381mm)						15													
	18 inches (460mm)						18													
Capillary Length	No Flex						N1													
	18 inches (457mm)						/18													
	30 inches (762mm)						/30													
Signal Output	3.33mV/V						mV													
	0~5VDC						5V													
	0~10VDC						10V													
	4~20mA						mA													
Thermocouple	No TC						NT													
	E type						E													
	J type						J													
	K type						K													
	Pt100						RTD1													
Special Code	Standard version special or customized versions available on request																			000