

PT46X4 “A” Series



Features

- Auto-Zero functionality
- Accuracy better than $\pm 0.5\%$
- DyMax™ coated stainless steel wetted parts
- 4 - 20 mA output
- 0 - 500 to 0 - 30,000 psi
- No span or zero pots

Benefits

- No calibration required
- Repeatable, reliable pressure measurements
- Superior abrasion resistance
- Direct input to supervisory control systems
- Wide variety of pressure ranges
- Ready to use out of the box, just Auto-Zero

Description

The PT46X4 “A” Series transmitter is a $\pm 0.5\%$ sensor ideal for general melt pressure measurements requiring simple installation, repeatability and reliability. The PT46X4 “A” Series transmitters provide the industry standard 4 - 20 mA amplified signal designed to work with DCS and PLCs. The PT46X4 “A” Series comes equipped with the NEW Auto-Zero functionality. Auto-Zero provides the user the ability to install the transmitter right out of the box with just using the zero push button after installation. Optional thermocouple or RTD configurations are available to provide melt temperature. The PT46X4 “A” Series features a 1/2-20 UNF thread for simple and easy installation in standard transducer mounting holes.



Specifications

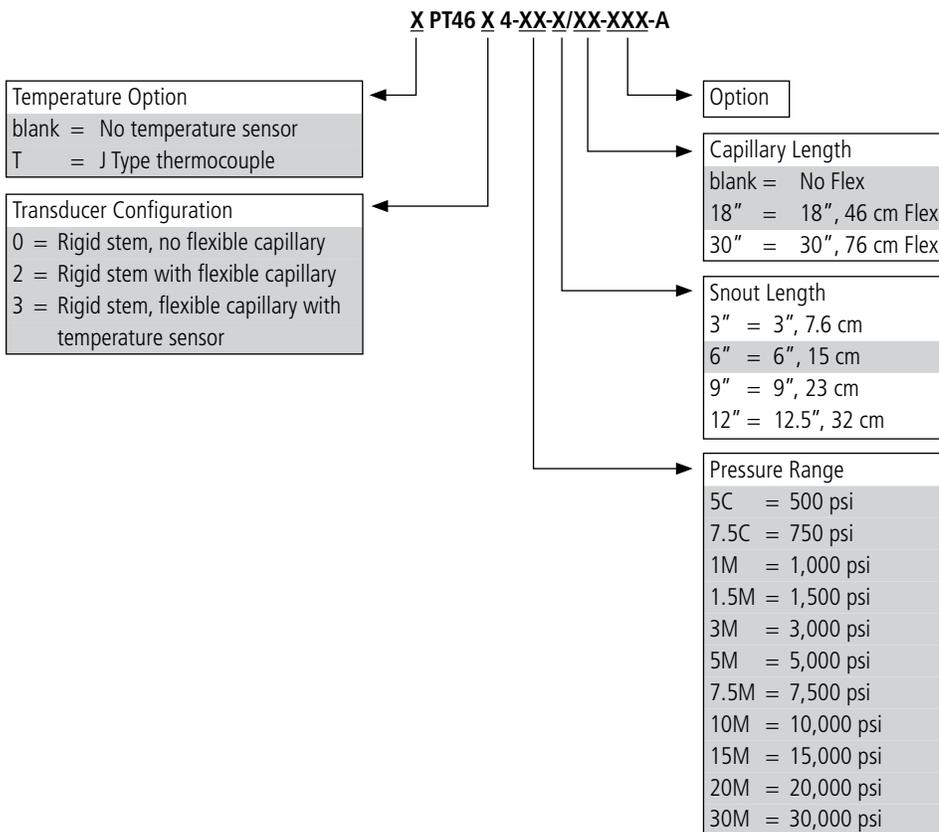
PERFORMANCE CHARACTERISTICS

Output:	4 - 20 mA
Input Voltage:	14 - 36 Vdc
Accuracy:	± 0.5% FSO combined error (Including Linearity, Repeatability & Hysteresis)
Repeatability:	± 0.2% FSO
Configuration:	Four-arm bonded foil Wheatstone bridge strain gage
Load Resistance:	0 - 1,100 Ohms
Over Pressure:	2X FSO or 35,000 psi (whichever is less)
Zero Balance Adjustment Range:	± 0.5%, min. -2% to 5% fs
Internal Shunt Calibration (R-Cal):	80% FSO ± 0.5%
Insulation Resistance:	1,000 megohms @ 50 Vdc

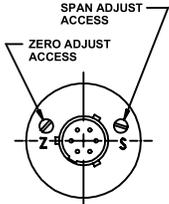
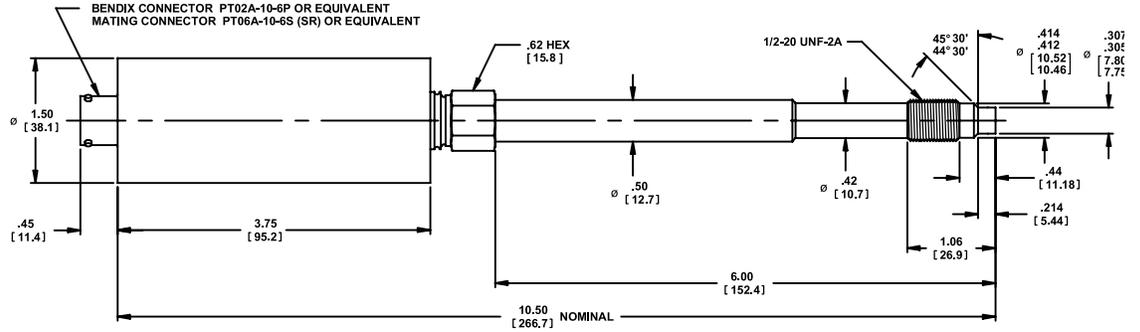
TEMPERATURE & MECHANICAL CHARACTERISTICS

Max Diaphragm Temp:	750°F (400°C)
Zero Shift (temp chg):	25 psi/100°F Typical (45 psi/100°C)
Electronics Operating Temp:	-20° to 185°F (-29° to 85°C)
Zero Shift (temp chg):	± 0.05% FS/°F max (± 0.10% FS/°C max)
Mounting Torque:	500 inch/lbs. max
Standard Wetted Parts:	Dymax™ coated 15-5 PH SST

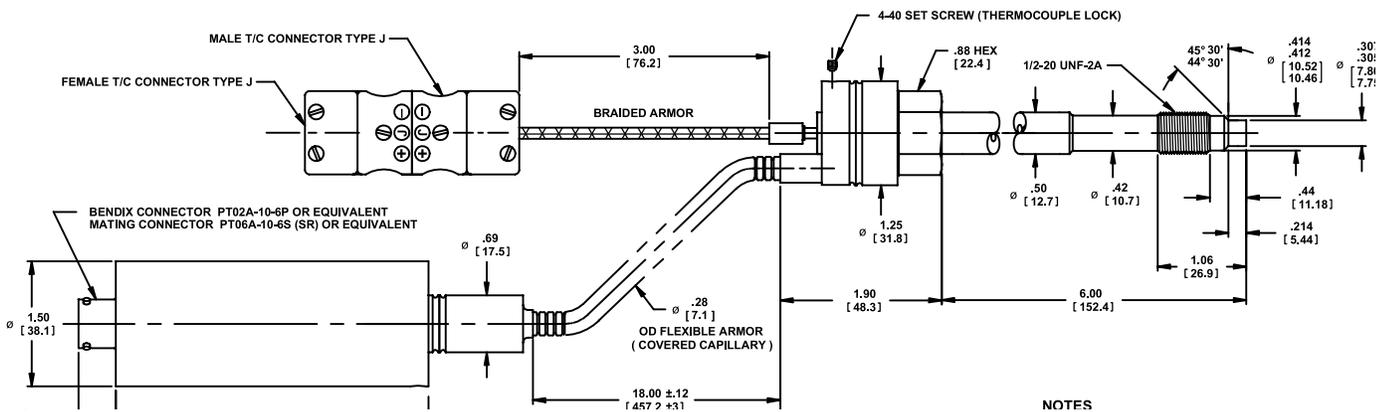
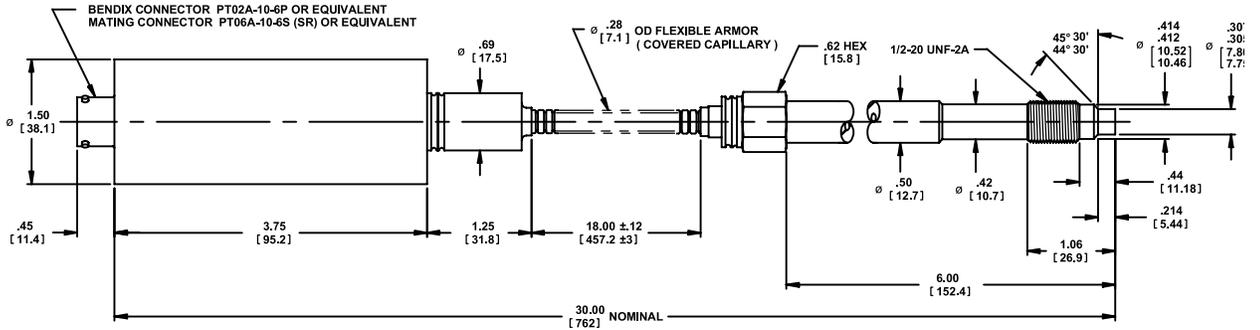
Ordering Guide



CONNECTOR WIRING	
PIN	FUNCTION
A	SIGNAL + / EXCITATION +
B	SIGNAL - / EXCITATION -
C	NO CONNECTION
D	NO CONNECTION
E	INTERNAL CAL RESISTOR
F	INTERNAL CAL RESISTOR



ZERO AND SPAN ADJUSTS ARE PROTECTED BY SEAL SCREWS



NOTES



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