

PT46X5 Pressure Sensors

IDEAL FOR GENERAL PURPOSE
MELT PRESSURE MEASUREMENTS



Description

The PT46X5 Series transmitter is a $\pm 0.5\%$ sensor ideal for general purpose melt pressure measurements requiring simple installation, repeatability and reliability. The PT46X5 transmitters provide the industry standard 0 - 5 Vdc amplified signal designed to work with DCS and PLCs, 1 - 6 Vdc outputs are also available. The PT46X5 comes equipped with zero and span pots to adapt the transmitter to process conditions. Optional thermocouple or RTD configurations are available to provide melt temperature. The PT46X5 features a 1/2-20 UNF thread for installation in standard transducer mounting holes and can be supplied with a variety of electrical connections.

Features

- Adjustable zero and span
- Accuracy better than $\pm 0.5\%$
- DyMax® coated stainless steel wetted parts
- 0 - 5 Vdc and 1 - 6 Vdc outputs
- 0 - 500 to 0 - 30,000 psi
- Internal 80% shunt calibrations

Performance Characteristics	
Outputs:	
PT46X5:	0 - 5 Vdc
PT46X5B:	1 - 6 Vdc
Input Voltage:	11 - 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:	2,000 Ohms minimum
Over Pressure:	2X FSO or 35,000 psi, (whichever is less)
Zero Balance Adjustment Range:	±15%
Span Adjustment Range:	±15%
Internal Shunt Calibration (R-Cal):	80% FSO ±0.5%

Temperature & Mechanical Characteristics	
Max Diaphragm Temperature:	750°F (400°C)
Zero Shift (due to temperature change):	25 psi/100°F Typical (45 psi/100°C)
Electronics Operating Temperature:	-20° to 185°F (-29° to 85°C)
Zero Shift (due to temperature change):	± 0.05% FS/°F max (± 0.10% FS/°C max)
Span Shift (due to temperature change):	± 0.02% FS/°F max (± 0.04% FS/°C max)
Mounting Torque:	500 inch/lbs. max
Standard Wetted Parts:	Dymax® coated 15-5 PH SST

Ordering Guide for PT46X5 Series



