Druck

PTX 651/PTX 671

Offshore/Process Pressure Transducers

- Ranges 1.5 psi through 10000 psi gauge or absolute
- ± 0.08% B.S.L. accuracy
- Stability 0.1% F.S. per year
- Thermal effects .005%/°F
- Reliability: MTBF of 100 years
- NACE compatible
- High proof & containment pressures
- Intrinsically safe certified
- RFI protected

The PTX 651 and PTX 671 process Transmitters combine micormachined silicon sensor technology with a fully welded stainless steel/Hastelloy construction to provide a high accuracy, stable, rugged pressure transmitter. These materials and environmental protection are ideal for arduous applications such as offshore and petrochemical.

By incorporating technology developed for demanding aerospace and military applications, the PTX 651/PTX 671 provide excellent long term stability and feature minimal output noise, non-linearity and hysteresis.

Process connections have been standardized as 1/2 NPT with a choice of electrical connections, either 3/4 NPT female conduit or junction box.

Each transmitter incorporates RFI/EMC spike protection and is certified intrinsically safe.

Within the junction box is a quick disconnect feature which negates the need to remove heavy duty cables when changing transmitters.

STANDARD SPECIFICATION

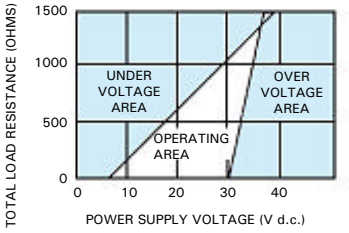
Operating pressure range
Any pressure unit and (zero based) span available between 5 psi and 10000 psi full scale to gauge and absolute formats: spans down to 1.5 psi available in gauge format only.

Overpressure
2 x F.S. minimum.

Proof pressure
1.5 x F.S. minimum.

Transmitter supply voltage
9-30V d.c.
This voltage must appear across the transmitter terminals.

Output current
4-20mA (two-wire configuration) proportional for zero to full scale pressure.



Enclosure sealing
NEMA 4X, IP66

Combined non-linearity, hysteresis and repeatability
Terminal definition: The output will not deviate from the straight line connecting zero and full scale output by more than 0.15% F.S. (Typically 0.1% F.S.).
Best straight line definition:
±0.08% F.S. (Typically ±0.05% F.S.)

Long Term stability
At standard reference conditions the calibration will not change by more than 0.1% F.S./annum (0.05%F.S. typical).

Operating temperature range
Ambient: -5^0 to $+175^0$F
Process media: -20^0 to $+250^0$F
Storage: -40^0 to $+250^0$F

Temperature effects
For ranges of 5 psi and above the output will not deviate from room temperature calibration by more than:-
0.5% F.S. over 15^0 to $+122^{0F}$ or
1% F.S. over -5^0 to $+175^0$F
Typically 0.3% F.S., 15^0 to $+122^0$CF
0.7% F.S., -5^0 to $+175^0$F.
For ranges below 5 psi these values will increase pro-rata with calibration span.

Material compatibility
316L stainless steel/Hastelloy C276
All Hastelloy C276 (optional)
All Monel 400 (optional

Weight
PTX 651 - 1.8 lbs.
PTX 671 - 4 lbs.

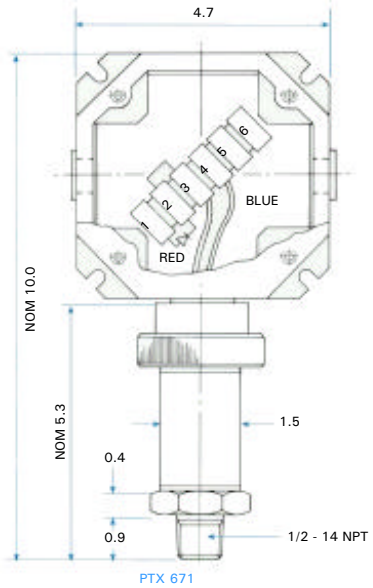
Intrinsic safety
These transmitters are certified for use with barrier systems to CSA Certification Class I, Groups A, B, C and D with a T4 temperature code. Cenelec EN50 020 available on request.

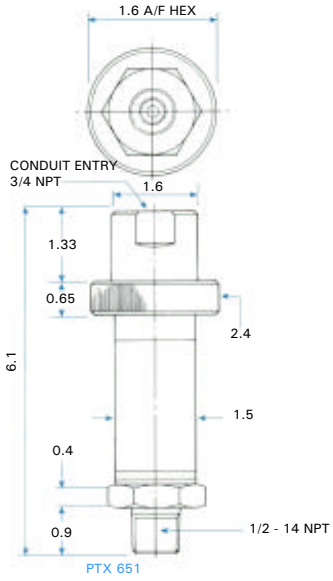
Process connection
$^1/_2$ NPT male.

Features
1) Glass filled polyester Junction Box (PTX 671)
2) Aluminium bronze disconnect ring
3) All 316 stainless steel welded body
4) In-line diode for output current monitoring (PTX 671)
5) Gold plated disconnect plug/socket (PTX 671)

For general purpose application please refer to PTX 600 Series data sheet.

Continuing development sometimes necessitates specification changes without notice.





Ordering information
Please state the following:-
(1) Type number

PTS 6XX

Temperature effect

0 -15° to +122°F
1 -5° to +175°F

Electrical connection

5 $^3/_4$ NPT female conduit
7 Junction box

Specification otherwise as PTX 600 Series data sheet.

INSTALLATION Dimensions: inches

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