

## PTX 651/PTX 671

### Offshore/Process Pressure Transmitters

- **High Stability: 0.1% F.S./year**
- **High reliability:**  
**MTBF approximately 100 years**
- **NACE compatible materials:**  
**Hastelloy, Monel, 316 stainless steel**
- **High proof and containment pressures**
- **Compact size**
- **Intrinsically safe**  
**EEx ia IIC T4 (ambient 80°C)**



The PTX 651 and PTX 671 process transmitter combines the micromachined silicon sensors with a fully welded stainless steel / Hastelloy / Monel pressure port to provide a high accuracy, stable, rugged pressure transmitter with materials and environmental protection suitable for these arduous applications.

Incorporating technology developed for aerospace/military applications gives improved output noise, non-linearity and hysteresis, and long term stability.

Process connections have been standardised as 1/2 NPT with a choice of electrical connections, either M20 x 1.5 conduit or junction box.

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

Within the PTX 671 junction box design 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 250mbar and 700 bar full scale to gauge and absolute formats: spans down to 100mbar available in gauge format only.

### Overpressure

2 x F.S. minimum.

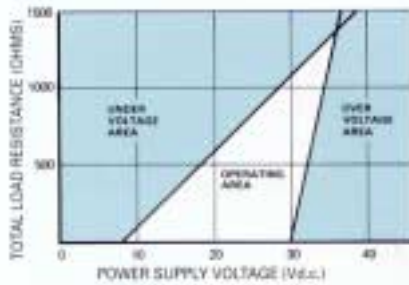
### Proof Pressure

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

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: -20° to +80°C

Process media: -30° to +120°C

Storage: -40° to +125°C

### Temperature Effects

For ranges of 400mbar and above the output will not deviate from room temperature calibration by more than:-

0.5% F.S. over -10° to +50°C or

1% F.S. over -20° to +80°C

Typically 0.3% F.S., -10° to +50°C.

0.7% F.S., -20° to +80°C.

### Material Compatibility

316L stainless steel

Hastelloy C276

Monel 400

### Weight

PTX 651-0.8kg.

PTX 671-1.8kg.

### Intrinsic Safety

To EEx ia IIC T4 amb 80°C to BS 5501 part 7 and Cenelec EN50 020.

### Process Connection

1/2 NPT male.

### Features

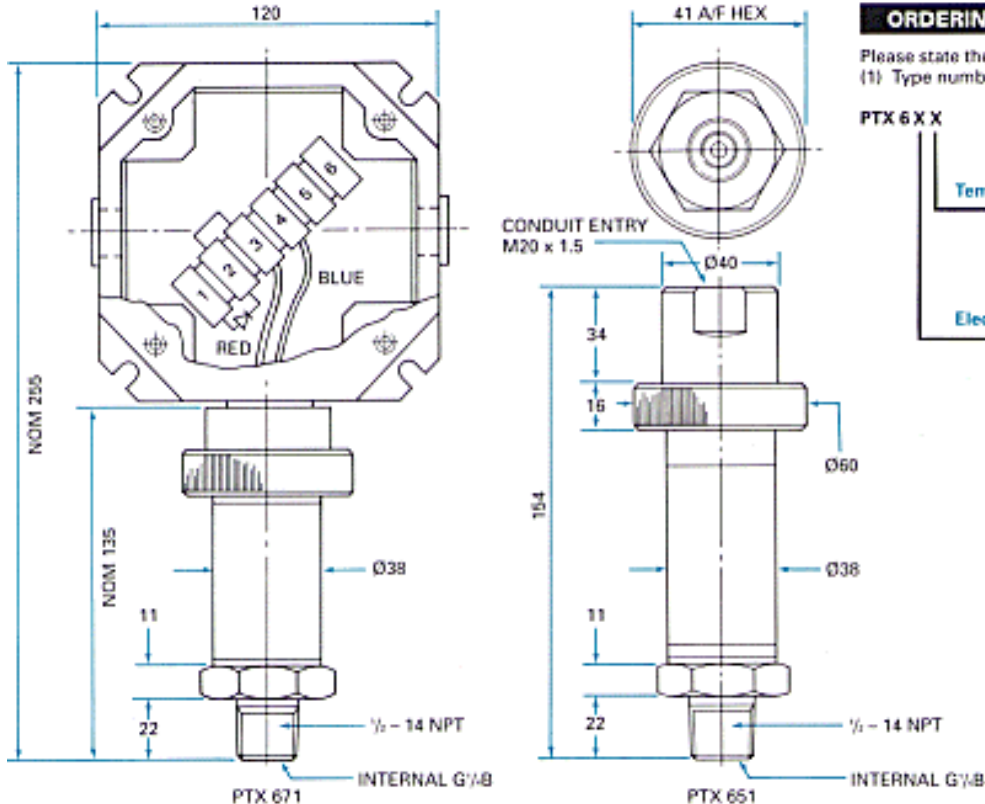
- 1) Glass filled polyester Junction Box (PTX 671)
- 2) Aluminium bronze disconnect ring
- 3) All 316 stainless steel welded body
- 4) In-line diode for output current monitoring (PTX 671)
- 5) Gold plated disconnect plug/socket (PTX 671)

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

Continuing development sometimes necessitates specification changes without notice.

## INSTALLATION DRAWINGS

Dimensions: mm



### ORDERING INFORMATION

Please state the following:-

(1) Type number

PTX 6 X X

#### Temperature Effects

0 -10° to +50°C

1 -20° to +80°C

#### Electrical Connection

- 5 M20 x 1.5 conduit thread
- 7 Junction box

Specification otherwise as PTX 600 Series data sheet.

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