

PTXPRESS

Industrial Pressure Sensors



The PTXPRESS Industrial Pressure sensors have been designed for use with aggressive pressure media found in many industrial and process applications. The 316L fully welded stainless steel and Hastelloy pressure module ensures excellent media compatibility without compromising performance.

Integral electronics provide a two-wire 4 to 20 mA output proportional to applied pressure. Integral non-interactive zero and span controls ensure system interchangeability and ease of calibration. The PTXPRESS incorporates developments from aerospace applications and volume manufacturing to achieve high performance with competitive pricing. Ex-stock delivery is provided by holding a stock of compensated and calibrated sensors in DIN pressure ranges. These sensors feature compact, rugged design with field proven electronics to ensure long term reliable measurement and low cost of ownership.

Features

- Pressure ranges from 250 mbar to 600 bar
- Gauge and barometric references
- 4 to 20 mA output
- 0.15% typical accuracy
- Intrinsically safe, CE marked
- Locally stocked for fast delivery



PTXPRESS Specifications

Operating Pressure Ranges

Zero based ranges

250 mbar gauge

1, 4, 6, 10, 16, 25, 40, 60 bar gauge

100, 250, 600 bar sealed gauge

Non-zero based ranges

800 to 1200 mbar barometric

-1 to 1.6 bar gauge

Overpressure

The rated pressure range can be exceeded by the following without degrading performance:

6 x Full Scale (FS) for 250 mbar range

4 x FS for ranges 1 to 60 bar (200 bar maximum)

4 x FS for ranges 100 to 600 bar (1200 bar maximum)

2 x FS for barometric range

Containment

6 x FS for ranges up to 60 bar (200 bar max)

1200 bar for ranges 100 to 600 bar

Pressure Media

Fluids compatible with a fully welded assembly of: 316L stainless steel and Hastelloy C276

Supply Voltage

7 to 28 Vdc

Performance

Accuracy

Combined non-linearity, hysteresis and repeatability: $\pm 0.15\%$ FS best straight Line (BSL) typical, $\pm 0.2\%$ FS BSL maximum

Zero Offset and Span Setting

Factory set to $\pm 0.5\%$ FS, $\pm 5\%$ site adjustable by sealed, non-interacting potentiometers

Long Term Stability

$\pm 0.05\%$ FS per annum typical

$\pm 0.1\%$ FS per annum maximum, increasing pro-rata for pressure ranges below 350 mbar

Operating Temperature Range

-40°C to 80°C

Temperature Effects

Over the compensated temperature range -20°C to 80°C



$\pm 1.0\%$ FS Temperature error band (TEB) typical, $\pm 1.5\%$ FS TEB maximum, For ranges below 350 mbar values increase pro-rata with calibrated span and doubles for barometric range

Physical

Pressure Connection

G 1/4 female

Electrical Connection

DIN 43650 Form A plug supplied with mating socket

Weight

0.4 lb (200 g) nominal

Enclosure

Stainless steel body

EDPM gasket

DIN 43650 connector

IP65

CE Marking

CE marked

Hazardous Area Certification

Supplied IECEx and ATEX Intrinsically Safe certified as standard, for use with an appropriate barrier system to:

Ex ia IIC T5 Ga ($-40^{\circ}\text{C} \leq T_a \leq 80^{\circ}\text{C}$)

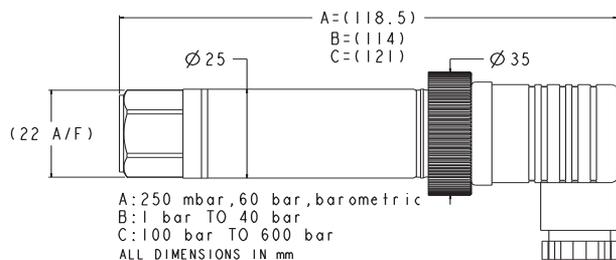
UNIK 5000 series certificates IECEx BAS 10.0103X and Baseefa 10ATEX0204X

Ordering Information

Please state the following:

- (1) Type number PTXPRESS
- (2) Operating pressure range

Mechanical Dimensions



Related products

PTXPRESS is a brand name for the UNIK series pressure transmitter model PTX5072-TB-A1-CA-H1-PA. There are 500,000 similar products available from the UNIK5000 series on a short delivery. Contact your local team to discuss a more specific application requirement.

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920-661A