

VYDAS

INTERNATIONAL MARKETING

Specialist Sensors & Instruments for Industry



NPX SERIES PRESSURE TRANSMITTERS

Applications

- pneumatic control systems
- hydraulics
- process control
- energy management

Features

- 0.5% accuracy (0.25% option)
- 4 – 20mA output
- available in gage and absolute pressure version
- high performance
- overpressure capability to 3 times maximum rated pressure
- all welded, stainless steel construction
- small sizes, low cost

General Description

The NPX series transmitters are fully temperature compensated, signal conditioned transmitters that provide a 4 - 20mA output. The integrated circuit silicon sensors are housed in stainless steel isolated packages, which are designed for the measurement of hostile media in harsh environments. The stainless steel diaphragms and oil filled spaces separate silicon sensors from hostile media. A variety of devices are available from 0 to 0.2 Bar through 0 to 400 Bar.

Pressure ranges

Operating	Proof ¹	Operating	Proof ¹	Operating	Proof ¹
-1 – 0 Bar	2.5 Bar	0 – 1 Bar	3xFS	0 – 50 Bar	3xFS
-0.5 – 0 Bar		0 – 2 Bar		0 – 100 Bar	2xFS
-0.2 – 0 Bar		0 – 5 Bar		0 – 200 Bar	
0 – 0.2 Bar		0 – 10 Bar		0 – 300 Bar	
0 – 0.5 Bar		0 – 20 Bar		0 – 400 Bar	1.5xFS

Physical Specification

Media Compatibility

The NPX Series may be used with any fluid, vapour or gas that is compatible with 303ss and diaphragm material (316Lss or Monel, or Hastelloy).

Fluid Fill

silicon oil
inert fluid

Materials of Construction

media wetted parts and sensor package:
303 stainless steel;
separating diaphragm: 316Lss, Monel,
Hastelloy.

Environmental Protection

IP65

Mass

350g

Environmental Specifications

Temperature limits:

- storage: -30 – 100°C
- operating: -20 - 70°C
- compensated: 0 – 70°C (standard) -20 – 80°C (option)
- media temperature: -20 – 85°C

Humidity limits:

0 – 100% RH

The continual development of our products may cause changes to the specification which can not be published in this document

Electrical Specification

supply voltage: 9 – 36VDC,

output signal: 4 – 20mA,

Performance specification³

accuracy (linearity, hysteresis, repeatability): 0.5%FS (standard)
0.25%FS (option);

thermal accuracy of zero: 0.25%FS/10⁰C (typical.)

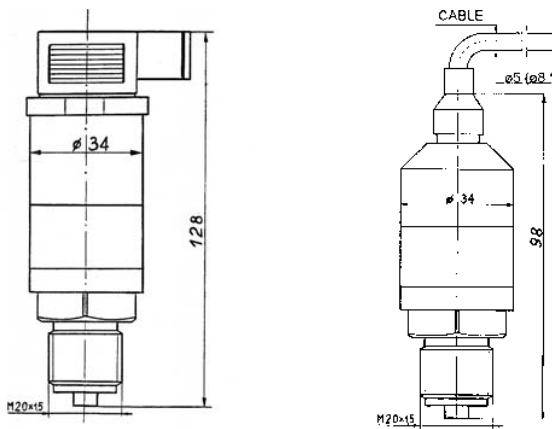
0.5%FS/10⁰C (max.);

thermal accuracy of range: 0.25%FS/10⁰C (typical);

zero and ratio moving ability⁴ ±10%;

load resistance: $R_L < \frac{U_{\text{supply}} - 9V}{20mA} \times 10^3 [\Omega]$;

Transmitter and electrical connections drawing



Electrical connector

DIN 43650 (angle connector)

2 wire cable

Media Connector

male M20x1.5,

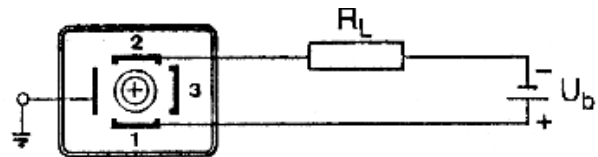
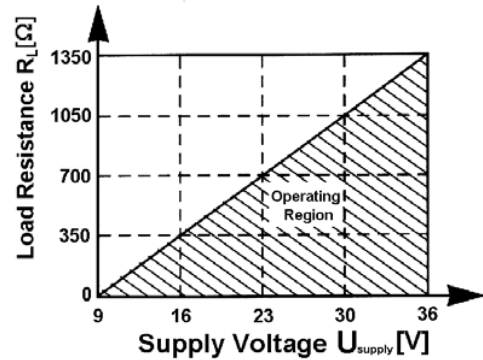
male G 1/4",

male G 1/2",

female NPT 1/2",

female NPT 1/4",

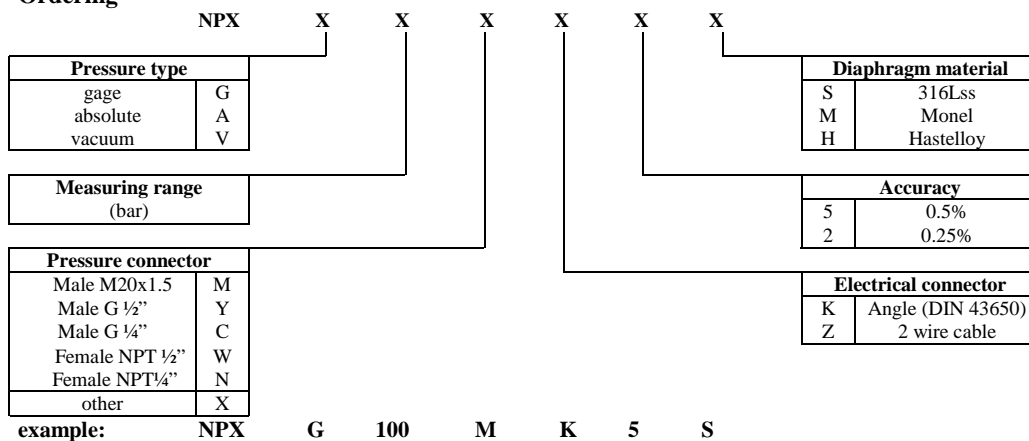
other on special request.



Specification notes;

1. Proof pressure is the maximum pressure, which may be applied without causing damage to the sensing element.
2. For proper function, the gage port is vented to the atmosphere through the angle connector or the connecting cable;
3. All specifications shown are relative to 20⁰C;
4. For transmitters with angle connectors the moving of the ratio and zero is possible after connector dismantling.

Ordering



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