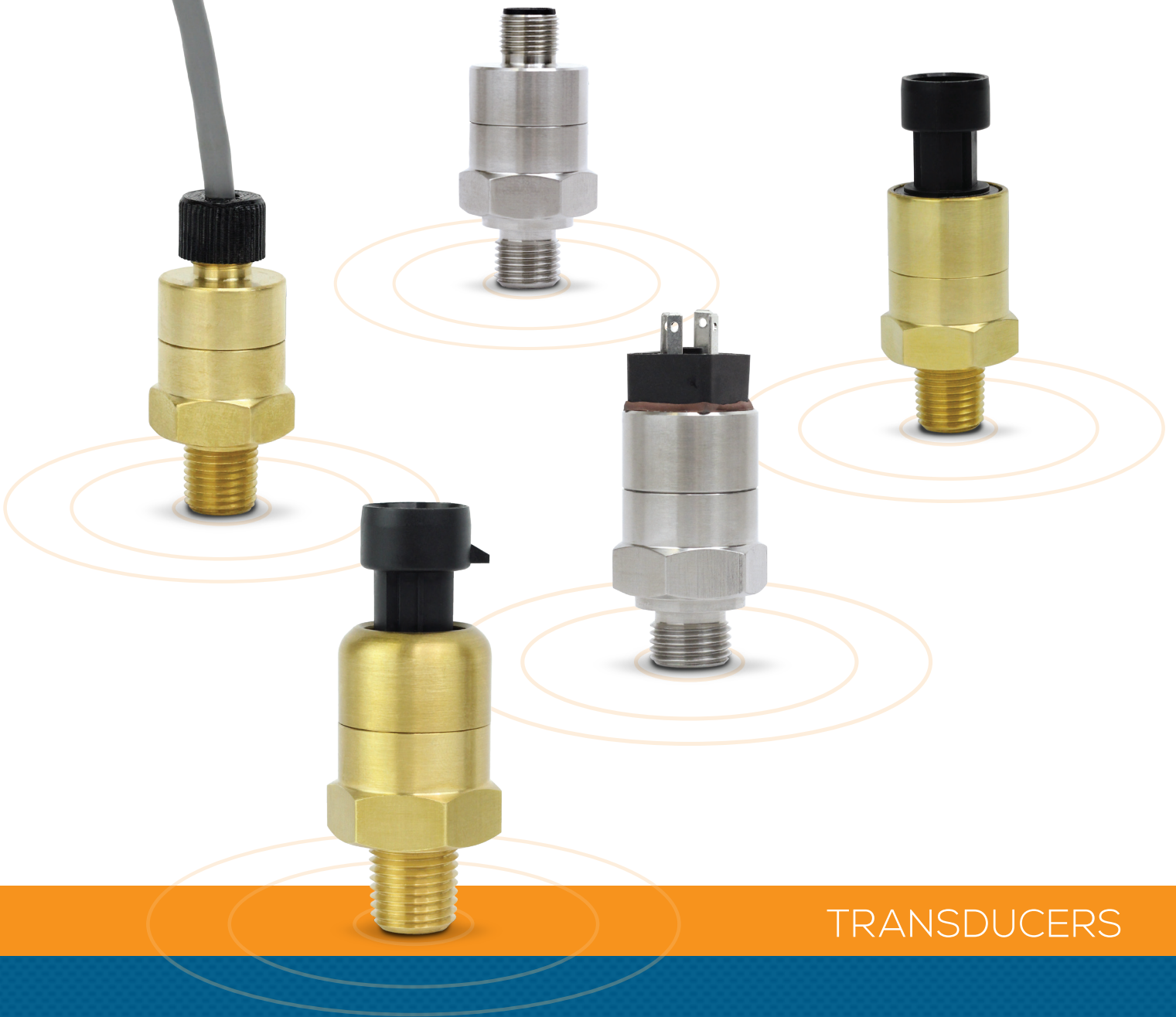


**NASON**

# NT PRESSURE TRANSDUCER

Reliability at an affordable price



TRANSDUCERS

# NT PRESSURE TRANSDUCER

The new **NT Series pressure** transducer packs powerful piezoresistive ceramic pressure sensors into a compact low-cost all-brass or 316 stainless steel body. Reliable and easy to install, the NT sets a new price-performance standard for low-cost, high-volume commercial and industrial applications.

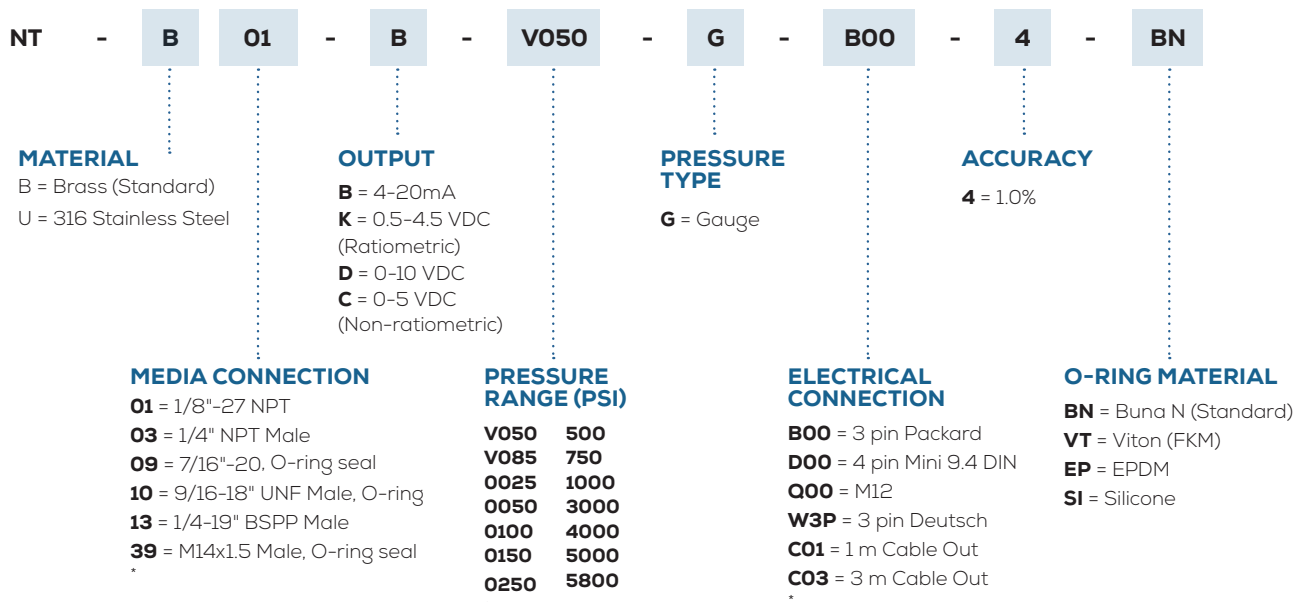
## Features

- Ranges from vacuum to 5,800 psi
- Voltage and current outputs
- Brass or 316 stainless steel housing options
- Brass or stainless steel & elastomeric wetted parts
- 1.0% accuracy
- Thermal compensation
- Custom output and range options
- OEM testing and approval
- Compact design
- Affordable price point
- Long-term stability
- Low-power consumption
- Rugged construction

## Applications

- Food and beverage equipment
- Energy and water management systems
- Construction and agricultural machinery
- Hydraulic and mobile hydraulic equipment
- Pneumatic systems
- Pumps and compressors

## HOW TO ORDER (Example: Part Number: **NT - B01 - B - V050 - G - B00 - 4 - BN**)



\* Consult factory for further OEM options.

# Specifications

## INPUT

<b>Supply Voltage</b>	(B) 12 VDC to 36 VDC for 4 - 20 mA Output (C) 12 VDC to 30 VDC for 0 - 5 VDC Non-Ratio Metric Output (D) 12 VDC to 30 VDC for 0 - 10 VDC Non-Ratio Metric Output (K) 5.0 VDC +/- .5 VDC for 0.5 - 4.5 VDC Ratio Metric Output
<b>Pressure Range</b>	Vacuum to 5,800 PSI
<b>Over Pressure</b>	2x (8700 psi max)
<b>Burst Pressure</b>	0 - 750 psi = 3x, 750 - 5800 psi = 2.25x (max 8700)
<b>Fatigue Life</b>	More than 1 million cycles

## PERFORMANCE

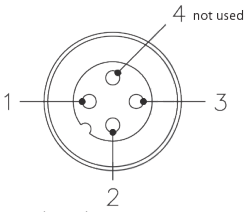
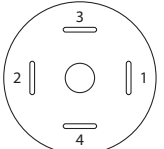
<b>Accuracy</b>	±1.0% of Span: from -20°C to 85°C (-4°F TO 185°F) FSC ±2.0% of Span: from -40°C to 100°C (-40°F TO 212°F) FSO outside of FSC
<b>Stability</b>	< 0.2% F.S.O./year
<b>Response Time</b>	< 1 mS
<b>Compensated Temperatures</b>	-20°C to 85°C (-4°F TO 185°F)
<b>Operating Temperatures</b>	-40°C to 100°C (-40°F TO 212°F)
<b>Zero Output</b>	0 ± 0.2 mV/V @ 25 °C
<b>Vibration</b>	15 g's, 10-2000 Hz
<b>Shock</b>	50g, 11ms, 1/2 sine



## MECHANICAL CONFIGURATION

<b>Pressure Port</b>	¼ NPT (standard)**
<b>Electrical Connection</b>	M12, 9.4 Mini DIN, 3-pin Deutsch, 3-pin Packard, or cable out.
<b>Sealing Rating</b>	IP67 when used with M12 cable assembly
<b>Wetted Parts</b>	Brass or 316 stainless steel & elastomer

## Electrical connections

SIGNAL	FUNCTION	COLOR	PIN	ELECTRICAL CONNECTOR
4-20 mA	Supply V	Brown	1	M12 
	Output	Blue	3	
0-10V or 0.5-4.5V	Supply V+	Brown	1	DIN 4 pin (9.4) 
	Output	White	2	
	Com	Blue	3	
4-20 mA	Supply V	Red	1	
	Output	Black	2	
0-10V or 0.5-4.5V	Supply V+	Red	1	
	Com	Black	2	
	Output	White	3	

\*\* See How to Order for options.



## From basic models to designs with piezoresistive technology, Nason has the transducers you're looking for.

Nason's compact transducers support a wide variety of applications with accuracy ranges of 1%, .4%, .25% and .15% and vacuum ranges up to 10,000 PSI.

Explore Nason's complete line of highly reliable temperature and pressure transducers at [nasonptc.com](http://nasonptc.com).

Want to learn more about our NT ceramic pressure transducer?



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[www.nasonptc.com](http://www.nasonptc.com)

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