

# NEW Barksdale CNG Pressure Transducer

*Compact and robust design for alternative fuel applications*



## Series 650 CNG Pressure Transducer

Ideal for long-term use even in harsh environments of extreme temperature, humidity and vibration, Barksdale pressure transducers is the preferred choice for high pressure CNG transducers that are certified to industry standards and organization approvals. The shift from diesel to clean fuels has created a growing demand for fuel system components that can meet the strict requirements of NGV3.1 standards. The CNG transducer provides accuracy and reliability for high pressure applications even in the most harsh environments.

### Key Features:

- ▶ Conforms to ANSI/CSA NGV 3.1 2014 -P36
- ▶ Working pressure up to 5,000 psi
- ▶ Wide operating temperature -40°C to +125°C
- ▶ One piece 316 Stainless steel construction for harsh environments
- ▶ Standard accuracy +/- 0.5%



**Barksdale®**  
CONTROL PRODUCTS  
**CRANE** Barksdale, Inc./Barksdale GmbH  
A Subsidiary of Crane Co.

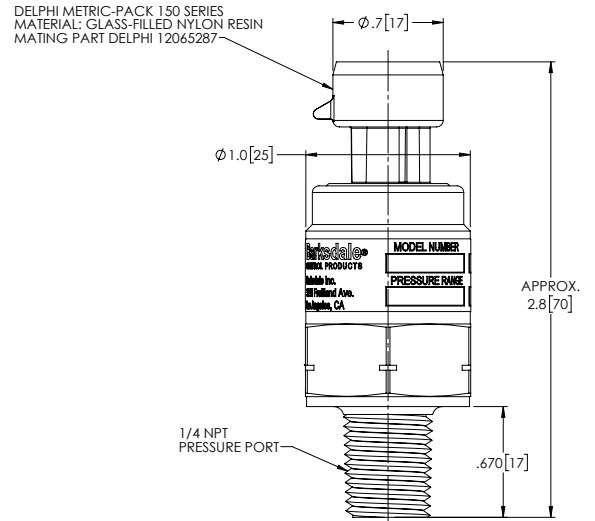
# Barksdale CNG Pressure Transducer

## Series 650

### General Specifications\*

<b>Accuracy:</b>	+/- 0.5% of full scale at 77°F (25°C), typical
<b>Proof Pressure:</b>	2 times rated pressure
<b>Temperature Range:</b>	
Operating:	-40° to 257°F (-40° to +125°C)
Compensated:	32 to 185°F (0° to 85°C)
Storage:	-40° to 257°F (-40° to +125°C)
<b>Wetted Parts:</b>	Ceramic, Corrosion Resistant Stainless Steel (316), Fluorocarbon Elastomer (FKM)
<b>Enclosure:</b>	316 Stainless Steel
<b>Excitation Voltage:</b>	9 to 24 VDC
<b>Output:</b>	
653:	1-5 VDC
654:	0.5 - 4.5 VDC
655:	4-20mA Output
657:	0-10 VDC
<b>Response:</b>	2 ms
<b>Approvals:</b>	CSA (-CS Option)
<b>Enclosure Rating:</b>	IP 67, NEMA 4

### Technical Drawing



### Product Configurator

Example:	<b>653</b>	<b>H3</b>	<b>T6</b>			
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#### Base Model

653	1-5 VDC
654	0.5-4.5 VDC analog output
655	4-20 mA analog output
657	0-10 VDC analog output

#### Electrical Connection

T6 <sup>2</sup>	Delphi Metri-Pack Series 150
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#### Pressure Range<sup>3,4</sup>

-15	0-15 psi (0-2.03 BAR)
-30	0-30 psi (0-2.07 BAR)
-100	0-100 psi (0-6.89 BAR)
-150	0-150 psi (0-10.34 BAR)
-300	0-300 psi (0-20.69 BAR)
-1000	0-1000 psi (0-68.95 BAR)
-2400	0-2400 psi (0-165.47 BAR)
-3000	0-3000 psi (0-103.42 BAR)
-3600	0-3600 psi (0-248.21 BAR)
-5000	0-5000 psi (0-344.74 BAR)

#### Process Connection

Blank	1/4" NPT male
-P2	7/16-20 SAE #4 ORB
-P9	G1/4 male (gasket seal)

#### Options

Blank	Standard
-Z1	Cleaned for oxygen service
-Z15 <sup>4</sup>	Calibrated in 'bar' unit
-Z19	Built in pressure surge suppressor (0.031" orifice)
-Z21	Built in pressure surge suppressor (0.011" orifice)
-Z22	Combination options: P9 + Z15 + Z19
-Z23	Combination options: P9 + Z15 + Z21
-ZXXY <sup>3</sup>	Special pressure ranges
-CS <sup>5</sup>	ANSI/CSA NGV 3.1-2014 Approval
-QXX	Custom Design. Consult Factory

- Note: 1. No agency approvals  
 2. Mating connector not included  
 3. Other ranges available with the use of -ZXXY Option. Consult factory.  
 4. To calibrate unit in 'BAR', select the closest pressure range then add suffix '-Z15' and 'ZXXY'. Example: 15 bar = 655H3-300-Z15-Z015  
 5. Only up to 3,600 PSI

**Barksdale**<sup>®</sup>