General Industrial Transducer

Series 423, 425, 426



H₃ Option

- Diffused Silicon Sensor for High Accuracy and Reliability
- ♦ Rugge<mark>ն</mark> Stainles<mark>s</mark> Steel Enclosure
- → Superior Surge Voltage Protection and EMI/RFI Immunity
- → Built-in High Pressure reddunz

arksdale's Series 423 and 426 Transducers and 425 **Transmitters** are general purpose, industrial grade transducers, ideal for use in general industrial applications when a robust transducer is required. Wetted parts are constructed of 17-4PH and 300 Series Stainless Steel, with NEMA 4 enclosures con-

structed of 304 Stainless Steel. These units feature a stable, diffused silicon sensor, that achieves .25% accuracy, have pressure ranges from 0-10,000 psi and are available in 5V, 10V or 4-20MA outputs. High pressure snubbers are standard on units at 2,000 psi and above. Optional surge voltage protection to 6kV is available. A variety of process fittings and electrical connections are available to meet your needs.

Play It Safe with Barksdale Transducers

When looking to fill your pressure sensor requirements, choose **Barksdale**

Transducers and Transmitters. Our products are designed to meet your stringent requirements for accuracy, repeatability and versatility and provide the ideal solution to precisely control your system's variables and enjoy improved performance of your equipment.

Barksdale Transducers and Transmitters

are developed for optimum performance. Our proven diffused silicon sensor technology provides an unbeatable combination of .25% accuracy, output ranges from 30 Hg (vacuum) to 10,000 psi, shock and vibration resistance, noise protection and long term stability. With Barksdale transducers and transmitters, you can count on long life and trouble-free operations and all at an attractive price.

Typical Transducer/Transmitter Applications

Choose Barksdale Transducers and Transmitters to meet your requirements in:

- Oil Pressure Hydraulics
- Cranes
- Presses
- Gas Metering
- Vacuum Machinery Packaging
- HVAC



In addition to our standard line of transducers and transmitters, Barksdale also has a complete line of explosion proof, intrinsically safe and non-incendive transducers and transmitters for hazardous locations where flammable gases, vapors, liquids or dust particles are present.

Need Something Special?

Our transducers and transmitters can be custom designed to meet your special requirements. Call us. We're just a phone call away. 1-800-835-1060.



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Performance Characteristics

Accuracy (LH & R) ±0.25% FSO

Long Term Stability $\pm 0.5\%$ FSO of calibration curve

Typical Life 100 million cycles

Proof Pressure 2 times rated pressure or 13,000 psi max.

(884 bar), whichever is less

Warranty 3 years

Input

423

Excitation Voltage 9 to 30 VDC (unregulated) **Supply Current** 15 mA maximum (no load)

426

Excitation Voltage 14 to 30 VDC (unregulated)
Supply Current 15 mA maximum (no load)

425

Excitation Voltage 12 to 30 VDC (unregulated)
Loop Resistance 1500 ohms maximum

Output

423

426

425

Physical

Weight

423 & 426 7.4 oz. (221 grams) to 1000 psi

9.9 oz. (281 grams) 1,000 psi and higher

425 7.4 oz. (210 grams) to 1000 psi

9.4 oz. (266 grams) 1,000 psi and higher

Wetted Parts 17-4 PH & 300 Series Stainless Steel

Enclosure NEMA 4, 304 Stainless Steel

Pressure Connection 1/4"-18 NPT male

Electrical Connection 22 awg, PVC jacketed, shielded cable,

(1 m) long with integral strain relief and

ground

Environmental

Temperature Ranges

 Operating
 0° to 160°F (-18° to 71°C)

 Compensated
 30° to 160°F (1° to 71°C)

 Storage
 -40° to 185°F (-40° to 85°C)

Temperature Shift

Zero & Span ±1% FSO (max.) over compensated range

 Vibration
 15 g's, 10-2000 Hz, MIL-STD 202

 Shock
 50 g's, 11 mS, MIL-STD 202 Method 213,

Cond. G.

Built-in Protection

- Conducted & Radiated RF emissions/interference to EN 55011

- IEC 801-2 Level 3 ESD (6 kV contact, 8 kV air)

- IEC 801-3 Level 3 Radiated RF field (80-1000 MHz at 10 Vlm)

- IEC 801-4 Electrical fast transient/burst (1 kV)

- IEC 801-6 Level 3 conducted susceptibility 150 kHz-80 MHz 10 V rms

- Pressure snubber standard on 2000 psi & above

Standard Options

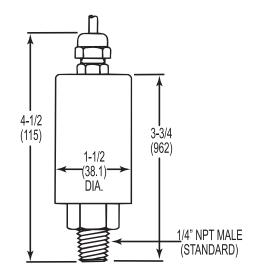
S - Voltage surge protection, IEC 801-5 level 4 surge to 4 kV T2 - 4-pin Bendix PT02A-8-4P less mating electrical connector

T4 - Hirschman ELST 412 PG9 less mating electrical connector

H4 - Subminiature DIN connection 43650 type P1- 7/16-20 UNF female process connector

NX4 - NEMA 4X enclosure

Consult factory for other options and design variations not listed.

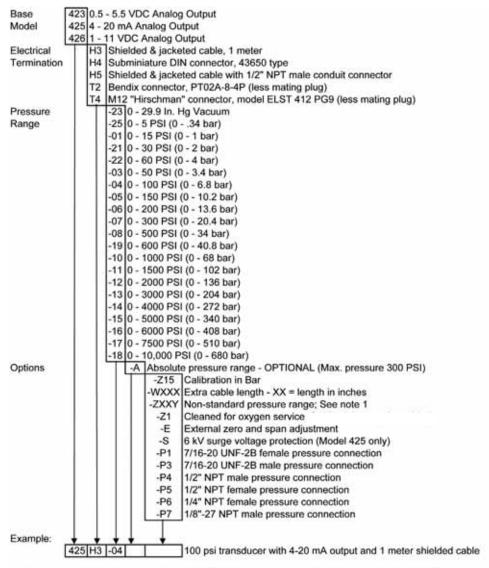


Wiring Code			
Voltage - Series 423, 426			
Α	1	Red	+ Excitation
В	3	White	+ Output
С	2	Black	Common
D	4	Bare	Drain
Milliamp - Series 425			
Α	1	Red	+ Excitation
В	2	Black	 Excitation
D	4	Bare	Drain



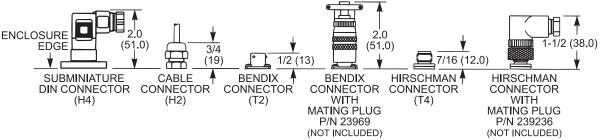
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Note 1: Non-standard pressure range option: Add suffix -ZXXY where XX = significant digits and Y = number of trailing zeros. Example: 130 psi calibration: add -Z131

Standard and Optional Electrical Connections



Barksdale CONTROL PRODUCTS

3211 Fruitland Avenue • Los Angeles, CA 90058 • ☎ 800-835-1060 • Fax: 323-589-3463 • www.barksdale.com