

Емкостные датчики низкого давления 830

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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830 Series – Wet/Wet Differential Pressure Transducer

- ▶ Liquid Media on Both Ports
- ▶ Bleed Screws for Accurate Results
- ▶ Optional Manifold for Easy Installation

The 830 Series is designed for wet-to-wet differential pressure measurements of liquids or gases. They feature fast-response capacitance sensors that respond approximately 20x faster than conventional fluid-filled transducers! Sensors are coupled to signal conditioned electronic circuitry for highly accurate, linear analog output proportional to pressure. Both unidirectional and bidirectional models are available for line pressures up to 350 psi (24 bar). These units feature bleed ports that allow for total elimination of air in the line and pressure cavities.

Common Specifications

Input	
Pressure Range	0 to 100 psid (0 to 6.9 bar)
Proof Pressure	see ordering chart
Burst Pressure	see ordering chart
Common Line Pressure	350 psi (24 bar)
Fatigue Life	>1 Million Cycles
Performance	
Supply Voltage (Vs)	9-30 VDC (13-30 VDC for 10 VDC output)
Long Term Drift	0.5% FS/year
Accuracy	0.25% FS
Thermal Error Zero	0.02% FS/°F (0.036% FS/°C)
Thermal Error Span	0.02% FS/°F (0.036% FS/°C)
Compensated Temperatures	30°F to 150°F (-1°C to +65°C)
Operating Temperatures	0°F to 175°F (-18°C to +80°C)
Storage Temperatures	-65°F to +250°F (-54°C to +121°C)
Zero Tolerance	0.5% FS
Span Tolerance	0.5% FS
Mechanical Configuration	
Pressure Port	see ordering chart
Wetted Parts	17-4 PH Stainless Steel, 300 Series SS, Viton and Silicone
Electrical Connection	7/8" Knock Out for 1/2" Conduit, Screw Terminal Strip
Enclosure	Stainless Steel, Aluminum
Vibration	5g Peak Sinusoidal, 5 to 500 Hz
Acceleration	10g
Shock	50g
Approvals	CE
Weight	15 oz

Individual Specifications

Voltage Output Units	
Output	0-5 VDC or 0-10 VDC (3 wire)
Min. Load Resistance	5000K ohms
Current Output Units	
Output	4-20 mA (2 wire)
Max. Loop Resistance	(Vs-9) x 50 ohms



CE

3-Valve Manifold Assembly



Gems optional 3-valve manifold assembly eases installation and maintenance.

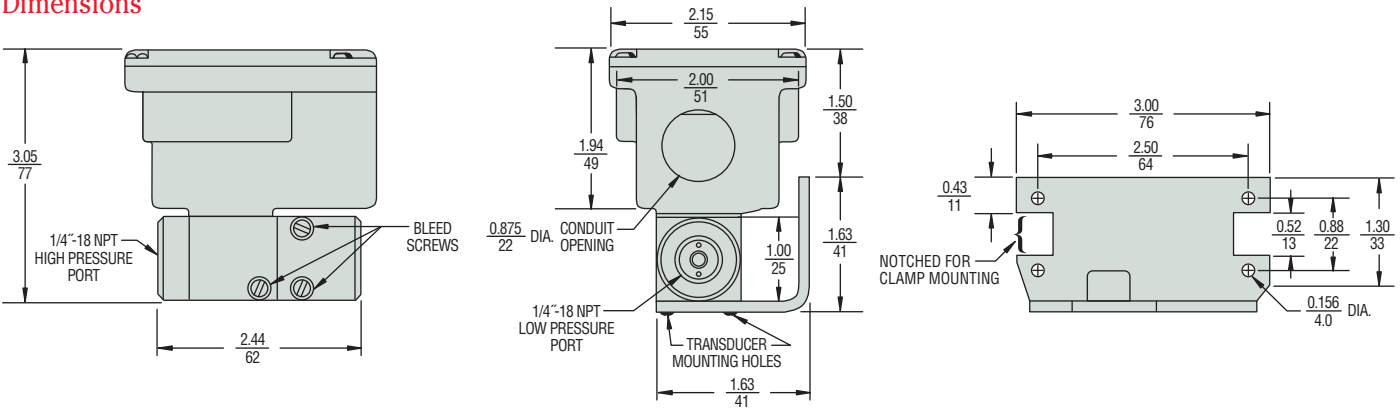
Applications

- Energy Management Systems
- Process Control Systems
- Liquid & Gas Flow Measurement
- Filter Monitoring
- Liquid Level Measurement

How They Operate

A unique isolation system transmits the motion of the differential pressure sensing diaphragm from the high line pressure environment to the dry enclosure where it moves one of a pair of capacitance plates proportionally to the diaphragm movement. Electronic circuitry linearizes output vs. pressure and compensates for thermal effects of the sensor.

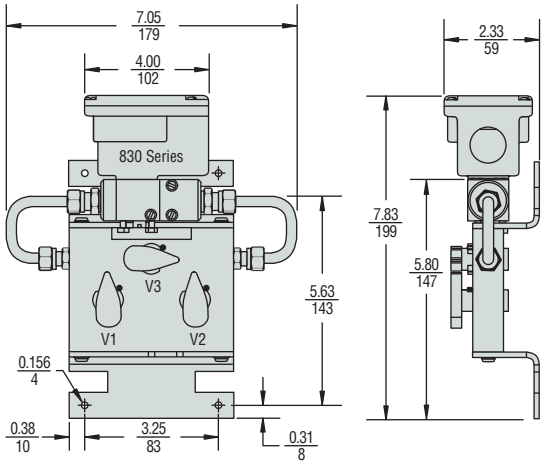
Dimensions



3-Valve Manifold

Gems optional 3-valve manifold assembly eases installation and maintenance. Machined of brass, it eliminates internal pipe connections and the associated chance of internal leaks. When manifold and 830 Series transducer are ordered together, they are assembled at the factory and shipped ready for mounting. Specify the **3V** Pressure Port code when ordering.

Wetted Parts	360 Brass, Copper 122, Acetal plug valves, and Nitrile O-rings
Valve Type	90-degree on/off
Process Connections	1/4" NPTF
Dimensions	7.05" x 6.25" x 2.16" D (179 mm x 159 mm x 55mm)
Weight	2.5 lbs



How to Order

Use the **bold** characters from the chart below to construct a product code

SELECT

8301 025PD 2F 11 B X

1. Series **8301** - 830 Series

2. Pressure Range Code

Unidirectional psid Ranges	Proof Pressure – psi			Bidirectional psid Ranges	Proof Pressure – psi		
	High Side	Low Side	Burst		High Side	Low Side	Burst
001PD - 0-1	20	2.5	200	0R5PB - ±0.5	20	1.25	200
002PD - 0-2	40	5.0	200	001PB - ±1	40	2.50	200
005PD - 0-5	100	12.5	600	2R5PB - ±2.5	100	6.25	600
010PD - 0-10	100	25.0	1000	005PB - ±5	100	12.50	1000
025PD - 0-25	350	62.5	1000	010PB - ±10	200	25.00	1000
030PD - 0-30	350	62.5	1000	025PB - ±25	350	62.50	1000
050PD - 0-50	350	125.0	1000	050PB - ±50	350	125.00	1000
100PD - 0-100	350	250.0	1000				

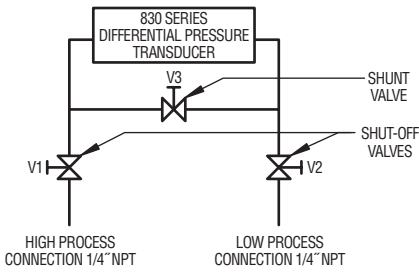
3. Pressure Port **2F** - 1/4" NPTF
3V - 3-Valve Manifold Assembly Installed

4. Output **11** - 4-20 mA
2D - 0-5 Vdc
2E - 0-10 Vdc

5. Bleed Screw Seals **B** - Viton/Silicon Standard
A - Buna-N Optional

6. Optional **C** - Calibration Certificate

Valve Schematic



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