

SERIES 616D | DIFFERENTIAL PRESSURE TRANSMITTER

FEATURES/BENEFITS

- Simple calibration push-buttons to set zero and span
- Cost effective and compact device suitable for OEM applications where space, simplicity, and value are key
- Simultaneous current and voltage outputs support process and test connection in a single circuit
- NPT or barbed fitting insures correct connection for application

APPLICATIONS

- Air handlers
- Duct pressure
- Variable air volume
- Filter monitoring

DESCRIPTION

The **SERIES 616D** Differential Pressure Transmitter senses the pressure of air and compatible gases and sends a standard 4 to 20 mA or 0 to 10 VDC output signal. The 616D enclosure is specifically designed to mount on a 35 mm DIN rail in a panel. This mounting style allows for several units to be mounted closely together reducing required space. The span and zero controls are for use when checking calibration. They are not intended for re-ranging. Versatile circuit design enables operation in 2-wire current loops.



SPECIFICATIONS

Service	Air and non-combustible, compatible gases.
Wetted Materials	Consult factory.
Accuracy	±0.25% FS @ 77 °F (25 °C).
Thermal Effect	±0.02% FS/°F (±0.036% FS/°C).
Stability	±1% FS/yr.
Temperature Limits	14 to 185 °F (-10 to 85 °C).
Pressure Limits	See chart on catalog page.
Power Requirements	10 to 35 VDC (2-wire); 17 to 36 VDC, or isolated 21.6 to 33 VAC (3-wire).
Output Signal	4 to 20 mA (2-wire); 0 to 10 VDC (3-wire).
Zero and Span Adjustments	Push buttons.
Loop Resistance	Current output: 0 to 1250 Ω max; Voltage output: Load resistance 1 kΩ min.
Current Consumption	40 mA max.
Electrical Connections	Screw-type terminal block.
Process Connections	1/8" female NPT. Accessories included are 2 barbed fittings for 1/8" (3.12 mm) and 3/16" (4.77 mm) ID rubber or vinyl tubing.
Mounting Options	Vertical, on a 1.378" (35 mm) DIN rail.
Weight	4.8 oz (136 g).
Agency Approvals	CE.



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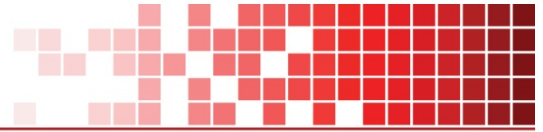
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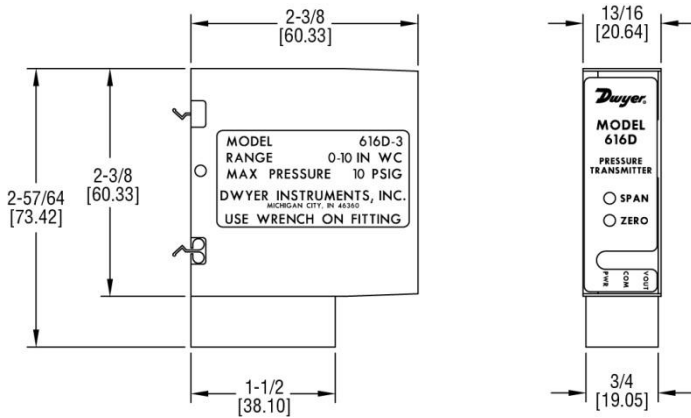


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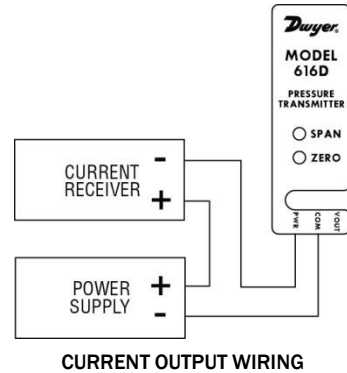
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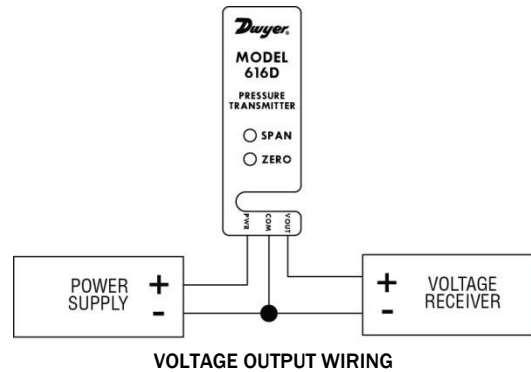
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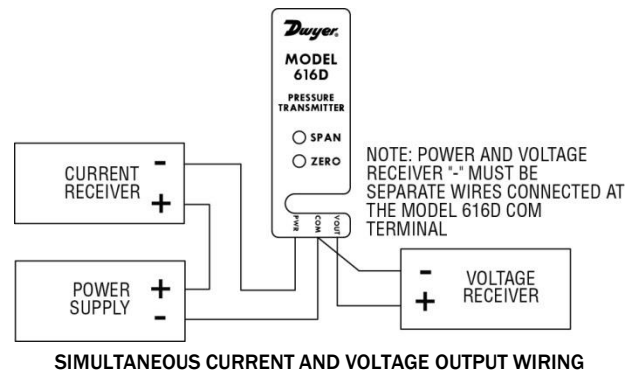
WIRING DIAGRAM



CURRENT OUTPUT WIRING



VOLTAGE OUTPUT WIRING



SIMULTANEOUS CURRENT AND VOLTAGE OUTPUT WIRING

HOW TO ORDER

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

	616D	-5	-NIST
SERIES			
616D - Differential pressure transmitter			
RANGE			
-2 - 0 to 6 in w.c.			
-3 - 0 to 10 in w.c.			
-4 - 0 to 20 in w.c.			
-5 - 0 to 40 in w.c.			
-6 - 0 to 100 in w.c.			
-7 - 0 to 200 in w.c.			
-8 - 0 to 10 psid			
OPTIONS			
-COC - Certificate of calibration			
-FC - Factory calibration			
-NIST - NIST traceable calibration certificate			

ACCESSORIES

Model	Description
A-360	Aluminum DIN rail, 1 m

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