

DIN RAIL DIFFERENTIAL PRESSURE TRANSDUCER LOW DIFFERENTIAL PRESSURES

PX663 Series

1 to 5 Vdc Output

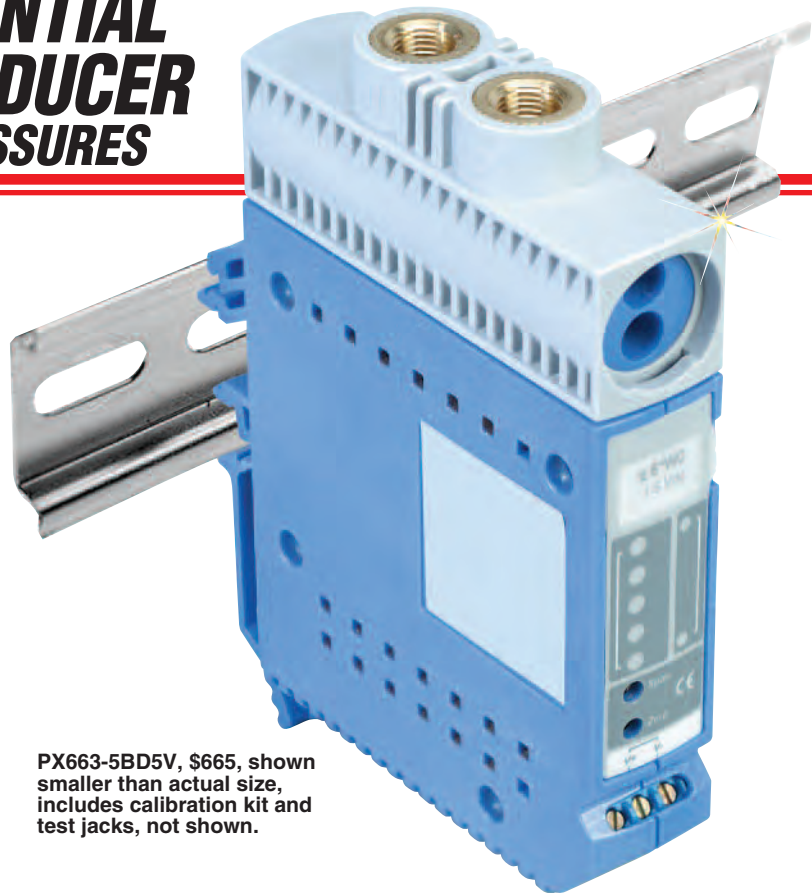
PX665 Series

4 to 20 mA Output

0-0.1 to 0-50 inH₂O

0-0.25 to 0-125 mbar

Starts at
\$650



PX663-5BD5V, \$665, shown smaller than actual size, includes calibration kit and test jacks, not shown.

DIFFERENTIAL PRESSURE TRANSDUCERS
B

- ✓ Compact Space-Saving DIN Rail Mountable Design
- ✓ Low Differential Pressure Ranges
- ✓ On-Board Voltage Regulation Allows Use of Low-Cost, Unregulated Power Supply
- ✓ Voltage and Current Output Models

SPECIFICATIONS

Excitation: 12 to 36 Vdc

Output:

PX663: 1 to 5 Vdc

PX665: 4 to 20 mA

Accuracy: ±0.5% FS

Non-Linearity: ±0.4% FS

Hysteresis: ±0.02% FS

Non-Repeatability: ±0.05%

PX663 Supply Current: <10 mA

Warm-Up Time: 5 sec max to meet standard specifications from initial power-up

Stability: Max change (FS/year) ±0.5%

Response Time: 250 ms

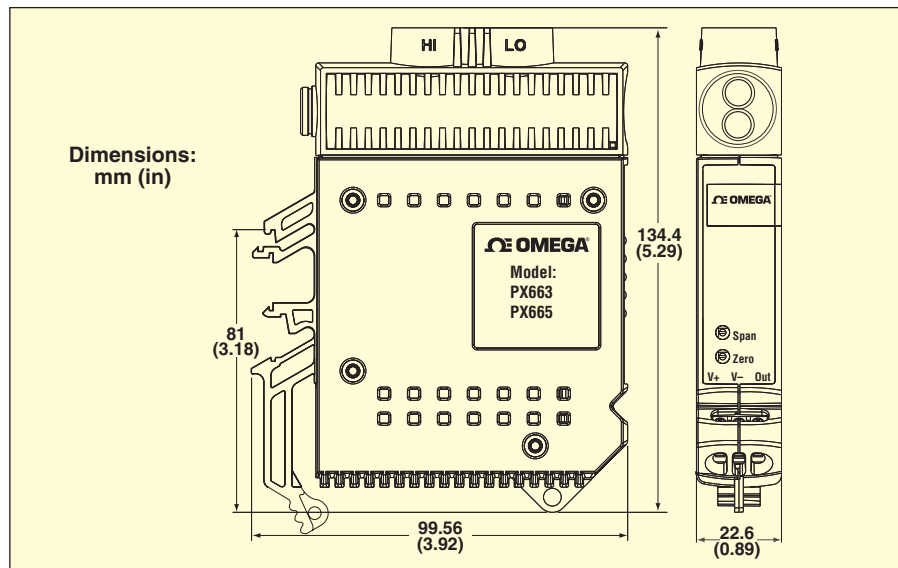
Temperature Limits:

Storage: -40 to 82°C (-40 to 180°F)

Operating: -28 to 82°C (-20 to 180°F)

(10 to 95% RH non-condensing)

Compensated: 2 to 57°C (35 to 135°F)



Thermal Coefficients:

Zero: ±0.036% FS/°C (±0.02% FS/°F)

Span: ±0.036% FS/°C (±0.02% FS/°F)

EMC: CE compliant to EN61326; 1997 ANNEX A harmonized heavy industrial transmitter specification

Overpressure Limits:

Proof: 15 psid

Burst: 25 psi

Max Static Pressure: 25 psi

Mounting Position Effect:

0.5" WC and higher 0.1% FS/g

Below 0.5" WC 0.25% FS/g

Note: Mounting position effect easily corrected with zero potentiometer

Zero and Span Potentiometers (Front Accessible, Non-Interactive):

Zero: ±5% FS

Span: ±3% FS

Pressure Connections: 1/8 NPT female

Weight: 127 g (4.5 oz)

Enclosure: Glass-filled polycarbonate (UL94 -V-1)

Pressure Media:

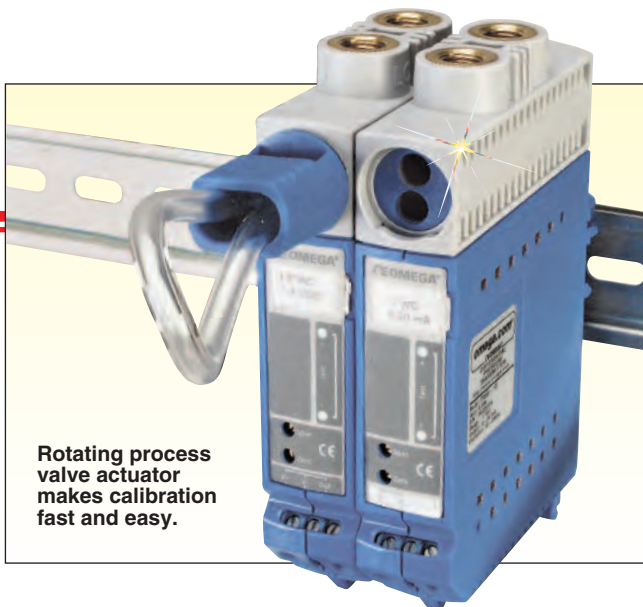
Clean, dry and non-corrosive gas

NOT FOR USE WITH LIQUIDS

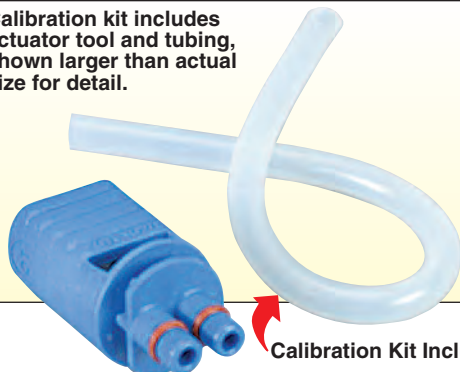
Mounting:

DIN rail types EN50022, 35 and 45

DIN RAIL DIFFERENTIAL PRESSURE TRANSDUCERS



Calibration kit includes actuator tool and tubing, shown larger than actual size for detail.



Calibration Kit Included!

Rotating process valve actuator makes calibration fast and easy.

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

RANGE		1 to 5 Vdc OUTPUT		4 to 20 mA OUTPUT		COMPATIBLE METERS*
inH ₂ O	mbar	MODEL NO.	PRICE	MODEL NO.	PRICE	
0 to 0.10	0.25	PX663-0.1D5V	\$780	PX665-0.1DI	\$765	DP25B-E, DPi8, DP41-E
0 to 0.25	0.62	PX663-0.25D5V	735	PX665-0.25DI	720	DP25B-E, DPi8, DP41-E
0 to 0.50	1.25	PX663-0.5D5V	700	PX665-0.5DI	685	DP25B-E, DPi8, DP41-E
0 to 0.75	1.87	PX663-0.75D5V	665	PX665-0.75DI	650	DP25B-E, DPi8, DP41-E
0 to 1.00	2.50	PX663-1D5V	665	PX665-1DI	650	DP25B-E, DPi8, DP41-E
0 to 1.50	3.70	PX663-1.5D5V	665	PX665-1.5DI	650	DP25B-E, DPi8, DP41-E
0 to 2.00	5.00	PX663-2D5V	665	PX665-2DI	650	DP25B-E, DPi8, DP41-E
0 to 2.50	6.20	PX663-2.5D5V	665	PX665-2.5DI	650	DP25B-E, DPi8, DP41-E
0 to 3.00	7.50	PX663-3D5V	665	PX665-3DI	650	DP25B-E, DPi8, DP41-E
0 to 5.00	12.50	PX663-5D5V	665	PX665-5DI	650	DP25B-E, DPi8, DP41-E
0 to 10.00	24.90	PX663-10D5V	665	PX665-10DI	650	DP25B-E, DPi8, DP41-E
0 to 15.00	37.40	PX663-15D5V	665	PX665-15DI	650	DP25B-E, DPi8, DP41-E
0 to 20.00	49.80	PX663-20D5V	665	PX665-20DI	650	DP25B-E, DPi8, DP41-E
0 to 25.00	62.30	PX663-25D5V	665	PX665-25DI	650	DP25B-E, DPi8, DP41-E
0 to 50.00	125.00	PX663-50D5V	665	PX665-50DI	650	DP25B-E, DPi8, DP41-E
BI-DIRECTIONAL RANGES						
±0.05	±0.12	PX663-0.05BD5V	\$780	PX665-0.05BDI	\$765	DP25B-E, DPi8, DP41-E
±0.10	±0.25	PX663-0.1BD5V	735	PX665-0.1BDI	720	DP25B-E, DPi8, DP41-E
±0.25	±0.62	PX663-0.25BD5V	700	PX665-0.25BDI	685	DP25B-E, DPi8, DP41-E
±0.50	±1.25	PX663-0.5BD5V	665	PX665-0.5BDI	650	DP25B-E, DPi8, DP41-E
±0.75	±1.87	PX663-0.75BD5V	665	PX665-0.75BDI	650	DP25B-E, DPi8, DP41-E
±1.00	±2.50	PX663-1BD5V	665	PX665-1BDI	650	DP25B-E, DPi8, DP41-E
±2.00	±5.00	PX663-2BD5V	665	PX665-2BDI	650	DP25B-E, DPi8, DP41-E
±2.50	±6.20	PX663-2.5BD5V	665	PX665-2.5BDI	650	DP25B-E, DPi8, DP41-E
±3.00	±7.50	PX663-3BD5V	665	PX665-3BDI	650	DP25B-E, DPi8, DP41-E
±5.00	±12.50	PX663-5BD5V	665	PX665-5BDI	650	DP25B-E, DPi8, DP41-E
±10.00	±24.90	PX663-10BD5V	665	PX665-10BDI	650	DP25B-E, DPi8, DP41-E
±25.00	±125.00	PX663-25BD5V	665	PX665-25BDI	650	DP25B-E, DPi8, DP41-E

* See section D for compatible meters.

Comes complete with operator's manual, calibration kit, and test jacks. Custom configurations available. Please consult Engineering.

Ordering Examples: **PX663-2.5BD5V**, differential pressure range with 4 to 20 mA output, 0 = 12 mA, ±2.5 inH₂O, \$650.

PX665-2.5DI, 0 to 2.5 psi, differential pressure, 4 to 20 mA output with 4 mA 0 = psid, \$650.

Recommended Reference Book: Fundamentals of Temperature, Pressure, and Air Flow Measurement **OP-6**, \$265.
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• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

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