

DIN RAIL DIFFERENTIAL PRESSURE TRANSDUCER LOW DIFFERENTIAL PRESSURES

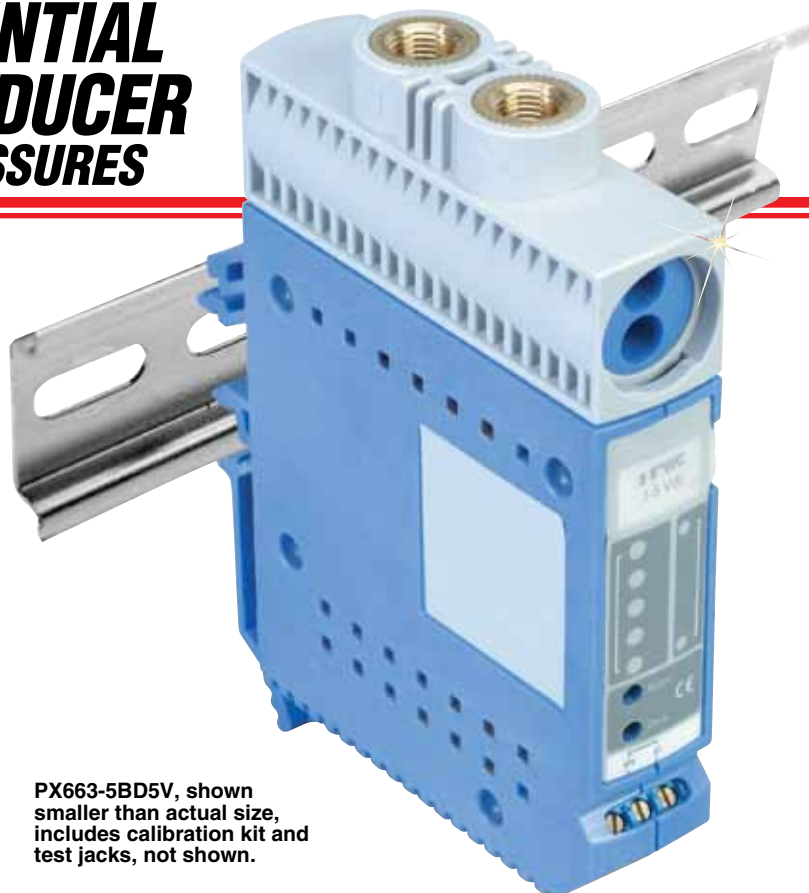
PX663 Series
1 to 5 Vdc Output

PX665 Series
4 to 20 mA Output
0-0.1 to 0-50 inH₂O
0-0.25 to 0-125 mbar

PX663/ PX665 Series



Standard



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

- ✓ 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: $\pm 0.5\%$ FS

Non-Linearity: $\pm 0.4\%$ full scale

Hysteresis: $\pm 0.02\%$ full scale

Non-Repeatability: $\pm 0.05\%$

PX663 Supply Current: <10 mA

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

Stability: Maximum change (full scale/year) $\pm 0.5\%$

Response Time: 250 ms

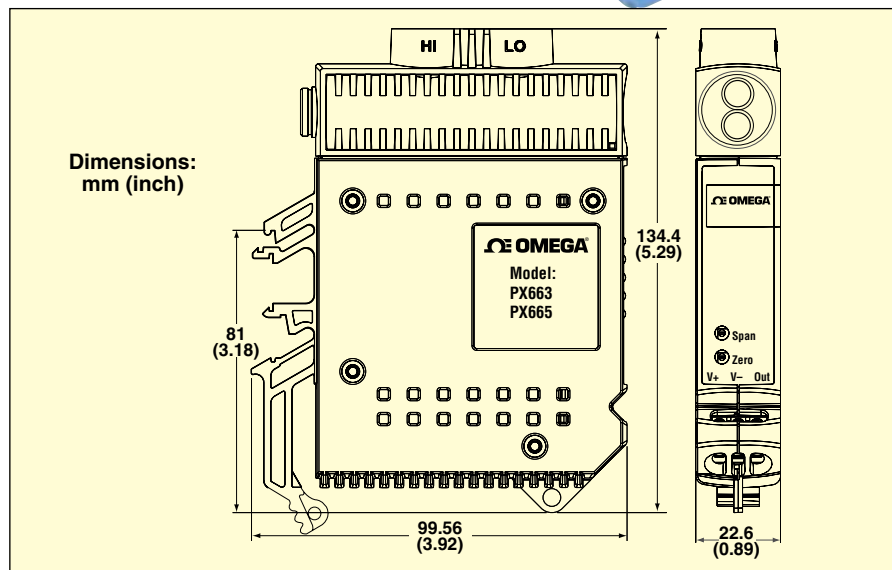
Temperature Limits:

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: $\pm 0.036\%$ full scale/°C ($\pm 0.02\%$ full scale/°F)

Span: $\pm 0.036\%$ full scale/°C ($\pm 0.02\%$ full scale/°F)

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

Overpressure Limits:

Proof: 15 psid

Burst: 25 psi

Maximum 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: $\pm 5\%$ full scale

Span: $\pm 3\%$ full scale

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

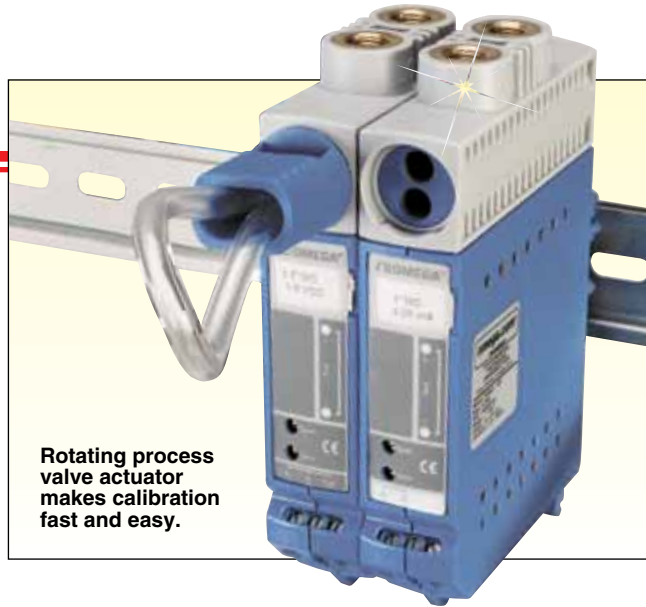
NOT FOR USE WITH LIQUIDS

Mounting:

DIN rail types EN50022, 35 and 45

DIFFERENTIAL PRESSURE TRANSDUCERS
B

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.

To Order

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

* See omega.com 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.

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