

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



Standard

- ✓ 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: $\pm 0.4\%$ FS

Hysteresis: $\pm 0.02\%$ FS

Non-Repeatability: $\pm 0.05\%$

PX663 Supply Current: <10 mA

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

Stability: Max change (FS/year) $\pm 0.5\%$

Response Time: 250 ms

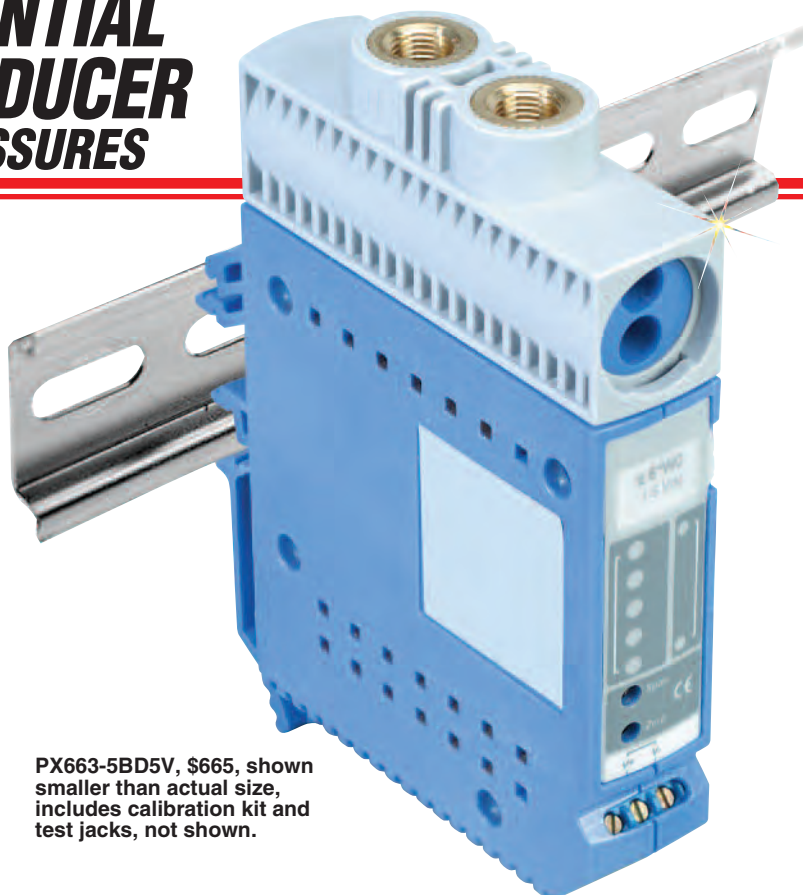
Temperature Limits:

Storage: -40 to 82°C (-40 to 180°F)

Operating: -28 to 82°C (-20 to 180°F)

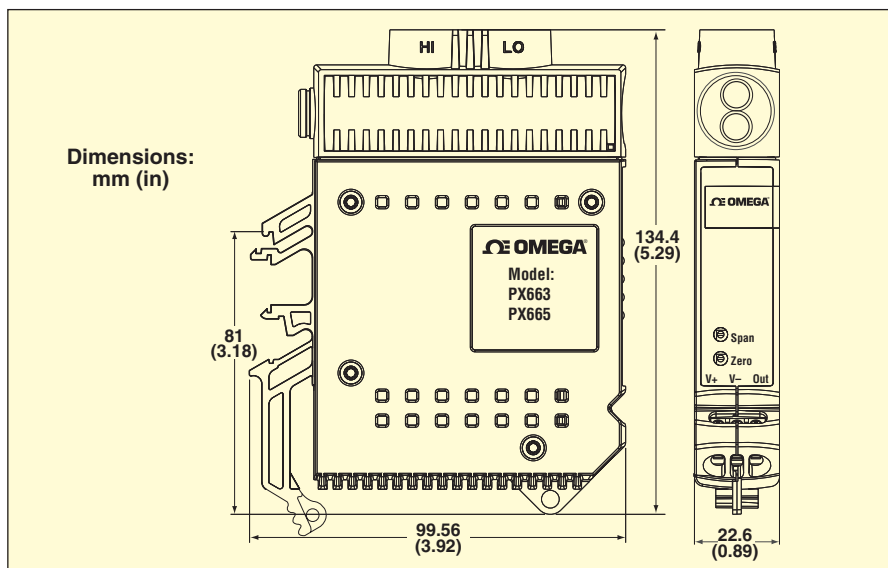
(10 to 95% RH non-condensing)

Compensated: 2 to 57°C (35 to 135°F)



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

DIFFERENTIAL
PRESSURE TRANSDUCERS
B



Thermal Coefficients:

Zero: $\pm 0.036\%$ FS/°C ($\pm 0.02\%$ FS/°F)

Span: $\pm 0.036\%$ FS/°C ($\pm 0.02\%$ 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: $\pm 5\%$ FS

Span: $\pm 3\%$ FS

Pressure Connections:

$\frac{1}{8}$ NPT female

Weight: 127 g (4.5 oz)

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

Pressure Media:

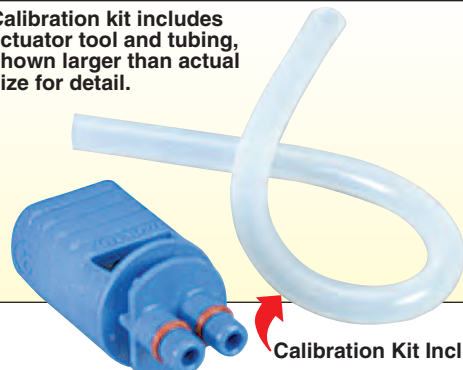
Clean, dry and non-corrosive gas
NOT FOR USE WITH LIQUIDS

Mounting:

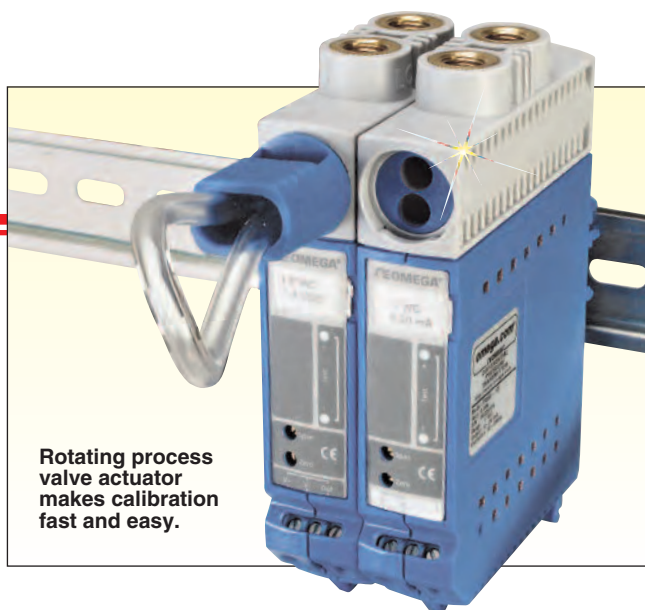
DIN rail types EN50022, 35 and 45

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.**
Visit omega.com/bobi for Additional Books





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