

HIGHLY ACCURATE, LOW-PRESSURE LABORATORY TRANSDUCER

0-0.1 to 0-50 inH₂O
0-25 Pa to 0-12.5 kPa

PX653 Series



Standard



PX653-10D5V, with DP3002-E meter, shown smaller than actual size.

Ideal Applications:

- ✓ Clean Rooms
- ✓ HVAC
- ✓ Laboratory Fume Hoods

SPECIFICATIONS

Excitation: 12 to 36 Vdc

Output: 1 to 5 Vdc (3 wire)

Linearity: 0.5% FS (BFSL)

Hysteresis: 0.02% FS

Repeatability: 0.05% FS

Operating Temperature:

-29 to 72°C (-20 to 160°F)

Compensated Temperature:

2 to 57°C (35 to 135°F)

Thermal Effects:

Zero: 0.015% FS/°F

Span: 0.015% rdg/°F

Proof Pressure: 15 psi

Burst Pressure: 20 psi

Static Pressure: 25 psi

Gage Type: Capacitance

Supply Current: <5 mA

Calibration Report: NIST cal at 25, 50, 75 and 100% FS; upscale and downscale provided

Response Time: 250 ms

Wetted Parts:

Dry, clean, non-corrosive gases only

Enclosure: NEMA 2 (IP62)

Dimensions: 107 H x 117 W x 53 mm D (4.2 x 4.6 x 2.1")

Pressure Port: ¼ barbed fittings (tubing TY-316-100)

Electrical Connections: Screw terminal

Weight: 368 g (13 oz)

To Order

RANGE		MODEL NO.	COMPATIBLE METERS
inH ₂ O	Pa/kPa		
0 to 0.1	0 to 25	PX653-0.1D5V	DP25B-E, DP41-E, DP460-E
0 to 0.25	0 to 62	PX653-0.25D5V	DP25B-E, DP41-E, DP460-E
0 to 0.50	0 to 125	PX653-0.5D5V	DP25B-E, DP41-E, DP460-E
0 to 0.75	0 to 187	PX653-0.75D5V	DP25B-E, DP41-E, DP460-E
0 to 1	0 to 249	PX653-01D5V	DP25B-E, DP41-E, DP3002-E
0 to 2	0 to 498	PX653-02D5V	DP25B-E, DP41-E, DP460-E
0 to 3	0 to 748	PX653-03D5V	DP25B-E, DP41-E, DP460-E
0 to 5	0 to 1.25	PX653-05D5V	DP25B-E, DP41-E, DP460-E
0 to 10	0 to 2.49	PX653-10D5V	DP25B-E, DP41-E, DP3002-E
0 to 25	0 to 6.23	PX653-25D5V	DP25B-E, DP41-E, DP460-E
0 to 50	0 to 12.5	PX653-50D5V	DP25B-E, DP41-E, DP460-E
BI-DIRECTIONAL RANGES			
±0.1	25	PX653-0.1BD5V	DP25B-E, DP41-E, DP460-E
±0.25	62	PX653-0.25BD5V	DP25B-E, DP41-E, DP460-E
±0.50	125	PX653-0.5BD5V	DP25B-E, DP41-E, DP460-E
±1	249	PX653-01BD5V	DP25B-E, DP41-E, DP460-E
±2.5	623	PX653-2.5BD5V	DP25B-E, DP41-E, DP460-E
±5	1.25	PX653-05BD5V	DP25B-E, DP41-E, DP460-E
±10	2.49	PX653-10BD5V	DP25B-E, DP41-E, DP460-E
±25	6.23	PX653-25BD5V	DP25B-E, DP41-E, DP460-E
±50	12.5	PX653-50BD5V	DP25B-E, DP41-E, DP460-E

Comes complete with NIST traceable calibration certificate and operator's manual.

Ordering Examples: PX653-01D5V, 0 to 1 inH₂O range with 1 to 5 Vdc output.

PX653-01BD5V, ±1 inH₂O range, 1 to 5 Vdc output with 0 = 3 Vdc.

DIFFERENTIAL PRESSURE TRANSDUCERS **B**