

FLUSH DIAPHRAGM TRANSDUCER WITH AMPLIFIED VOLTAGE OUTPUT STAINLESS STEEL WETTED PARTS

0.5 to 5.5 Vdc Output
0-15 to 0-20,000 psi
0-1 to 0-1300 bar

1 bar = 14.5 psi
1 kg/cm² = 14.22 psi
1 atmosphere = 14.7 psi = 29.93 inHg = 760.2 mmHg = 1.014 bar



PX103-5V Series



- ✓ All Stainless Steel
- ✓ Amplified Voltage Output
- ✓ Flush Diaphragm for Hard-to-Measure Fluids
- ✓ Ideal for Tank and Level Applications

Omega's PX103U voltage transmitters feature a rugged all stainless steel case and a high-reliability, low-noise 0.5 to 5.5 Vdc output. They are designed for use in critical applications in wastewater management, chemical manufacturing, water processing, tank and level applications, and other industrial applications where a non-plugging flush diaphragm is needed.

PX103U0-025G5V, shown actual size.

PX103U1-025G5V, shown actual size.

To Order

RANGE		MODEL NO.	COMPATIBLE METERS**
ABSOLUTE PRESSURE (All Ranges Available in Absolute Pressure)			
0 to 15 psi	0 to 1 bar	PX103U[*]-015A5V	DP41-E, DP25B-E, DP24-E
0 to 25 psi	0 to 1.7 bar	PX103U[*]-025A5V	DP41-E, DP25B-E, DP24-E
0 to 50 psi	0 to 3.4 bar	PX103U[*]-050A5V	DP41-E, DP25B-E, DP24-E
GAGE PRESSURE (All Ranges Also Available in Sealed Gage Pressure)			
0 to 15 psi	0 to 1 bar	PX103U[*]-015G5V	DP41-E, DP25B-E, DP24-E
0 to 25 psi	0 to 1.7 bar	PX103U[*]-025G5V	DP41-E, DP25B-E, DP24-E
0 to 50 psi	0 to 3.4 bar	PX103U[*]-050G5V	DP41-E, DP25B-E, DP24-E
0 to 100 psi	0 to 6.9 bar	PX103U[*]-100G5V	DP41-E, DP25B-E, DP24-E
0 to 200 psi	0 to 13.8 bar	PX103U[*]-200G5V	DP41-E, DP25B-E, DP24-E
0 to 500 psi	0 to 34.5 bar	PX103U[*]-500G5V	DP41-E, DP25B-E, DP24-E
0 to 1000 psi	0 to 68.9 bar	PX103U[*]-1KG5V	DP41-E, DP25B-E, DP24-E
0 to 2000 psi	0 to 138 bar	PX103U[*]-2KG5V	DP41-E, DP25B-E, DP24-E
0 to 3000 psi	0 to 207 bar	PX103U[*]-3KG5V	DP41-E, DP25B-E, DP24-E
0 to 5000 psi	0 to 345 bar	PX103U[*]-5KG5V	DP41-E, DP25B-E, DP24-E
0 to 10,000 psi	0 to 689 bar	PX103U[*]-10KG5V	DP41-E, DP25B-E, DP24-E
0 to 15,000 psi	0 to 1034 bar	PX103U[*]-15KG5V	DP41-E, DP25B-E*, DP24-E
0 to 20,000 psi	0 to 1379 bar	PX103U[*]-20KG5V	DP41-E, DP25B-E*, DP24-E

Comes complete with 5-point NIST traceable calibration.

Metric ranges available – consult Engineering.

* 4-digit meter, counts by 10. ** Visit us online for compatible meters.

[*] To order cable style insert "0" into model number; to order connector style insert "1".

To order absolute pressure ranges, replace "G" in model number with "A" and add **additional cost**.

To order sealed gage pressure ranges, replace "G" in model number with "S" (no extra charge).

To order extra lead length [3 m (10') standard] add suffix "-(Length of cable in feet)" and **additional cost** for each foot beyond 10'.

Ordering Examples: PX103U0-050G5V, 50 psi gage pressure cable style transducer with 0.5 to 5.5 Vdc output. PX103U1-050A5V, 50 psi absolute pressure connector style transducer with 0.5 to 5.5 Vdc output. PT06F10-6S-R, mating connector (sold separately). PX103U0-200S5V-25FT, 200 psi sealed gage pressure cable style transducer with 0.5 to 5.5 Vdc output and 7.6 m (25') leads.

ACCESSORY

MODEL NO.	DESCRIPTION
PT06F10-6S-R	Mating connector for PX103U1 series transducers

FLUSH DIAPHRAGM TRANSMITTER

SPECIFICATIONS

5.5 Vdc OUTPUT

Excitation: 10 to 30 Vdc

Output: 0.5 to 5.5 Vdc
(0.5 to 10.5 Vdc optional)

Zero Balance: 0.5V ±0.1V

Accuracy:

<100 psi: ±1% FSO linearity,
hysteresis and repeatability
combined

≥100 psi: ±0.5% FSO linearity,
hysteresis and repeatability
combined

Operating Temp Range:

<100 psi: -45 to 93°C (-50 to 200°F)

≥100 psi: -45 to 121°C (-50 to 250°F)

Compensated Temp Range:

<100 psi: -1 to 54°C (30 to 130°F)

≥100 psi: -18 to 66°C (0 to 150°F)

THERMAL EFFECTS

<100 psi:

Span: <±2% within
compensated range

Zero: <±1% within
compensated range

≥100 psi:

Span: ±0.003% rdg/°F

Zero: ±0.0045% FSO/°F

Ranges (psi): 5, 15, 25, 50, 100, 200,
500, 1K, 5K, 10K, 20K; gage, sealed
gage or absolute; metric ranges also
available

Proof Pressure:

<100 psi: 200% of rated pressure

≥100 psi: 150% rated pressure

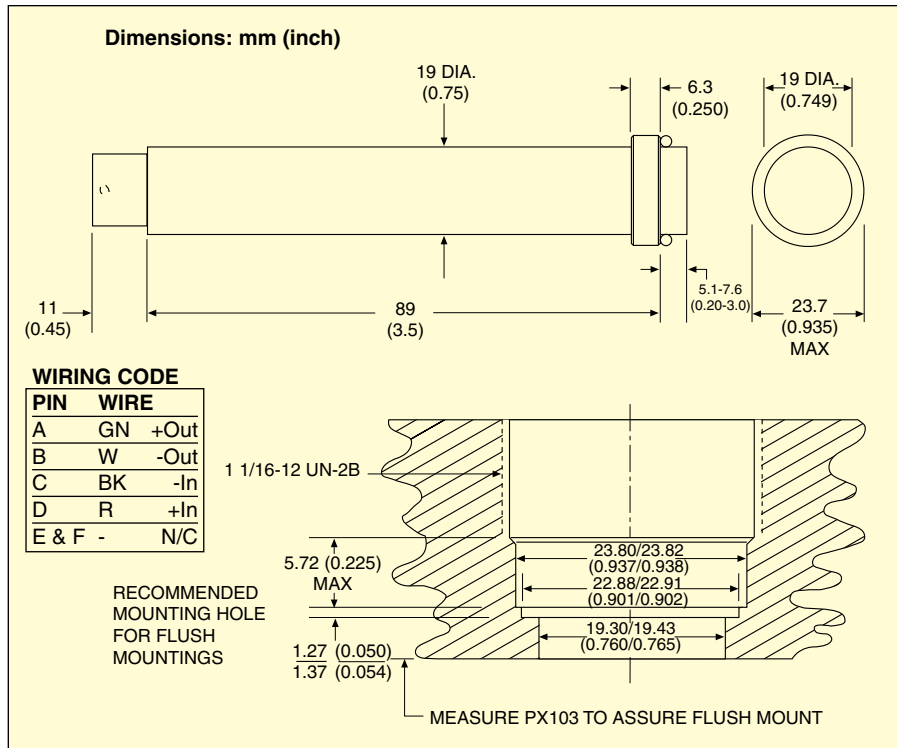
30,000 psi: maximum

Burst Pressure:

<100 psi: 500% of rated pressure

≥100 psi: 300% of rated pressure

50,000 psi: maximum



Wetted Parts:

Ranges <100 psi: 316 stainless steel

Ranges ≥100 psi: 17-4 PH stainless steel

Pressure Port:

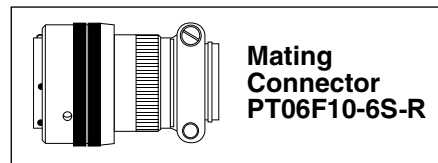
Flush diaphragm

O-Ring: #2-018, sold separately

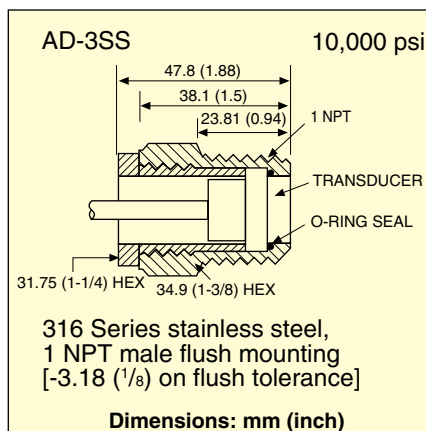
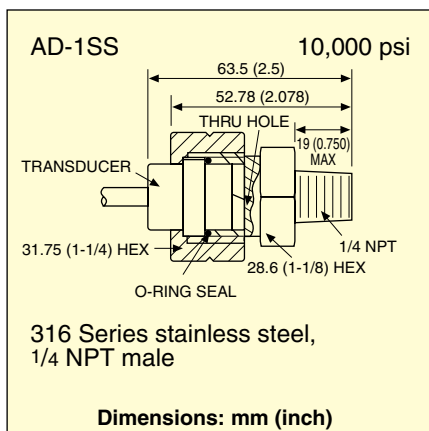
Electrical Connection: 3 m (10')
4-conductor shielded PVC cable or
PTIH-10-6P or equal

Mating Connector:

PT06F10-6S-R (sold separately)



Flush Mount Adaptors for Series PX103 Transducers



"O" RINGS FKM or Polyurethane

Use for pressures under
10,000 psi:

#2-018-V

FKM Pack of 10

Use for pressures of
10,000 psi and higher:

#2-018-P

POLYURETHANE Pack of 15

O-Ring Provided with Each Adaptor

FLUSH DIAPHRAGM TRANSMITTER

STAINLESS STEEL WETTED PARTS

MOUNTING FITTINGS AVAILABLE



4 to 20 mA Output
0-15 to 0-20,000 psi
0-1 to 0-1300 bar

1 bar = 14.5 psi
 1 kg/cm² = 14.22 psi
 1 atmosphere = 14.7 psi = 29.93 inHg = 760.2 mmHg = 1.014 bar



PX103U0-025GI,
shown actual size.

Cable style.



PX103U1-025GI,
shown actual size.

Twist-lock style.

PX103-i Series



- ✓ All Stainless Steel
- ✓ Low-Noise 4 to 20 mA Output
- ✓ Flush Diaphragm for Hard-to-Measure Fluids
- ✓ Ideal for Tank and Level Applications

Omega's PX103 Series transmitters feature a rugged all stainless steel case and a high-reliability, low-noise 4 to 20 mA output. They are designed for use in critical applications in wastewater management, chemical manufacturing, water processing, tank and level operations, and other industrial applications in which a non-plugging flush diaphragm is needed.

SPECIFICATIONS

Excitation: 10 to 30 Vdc

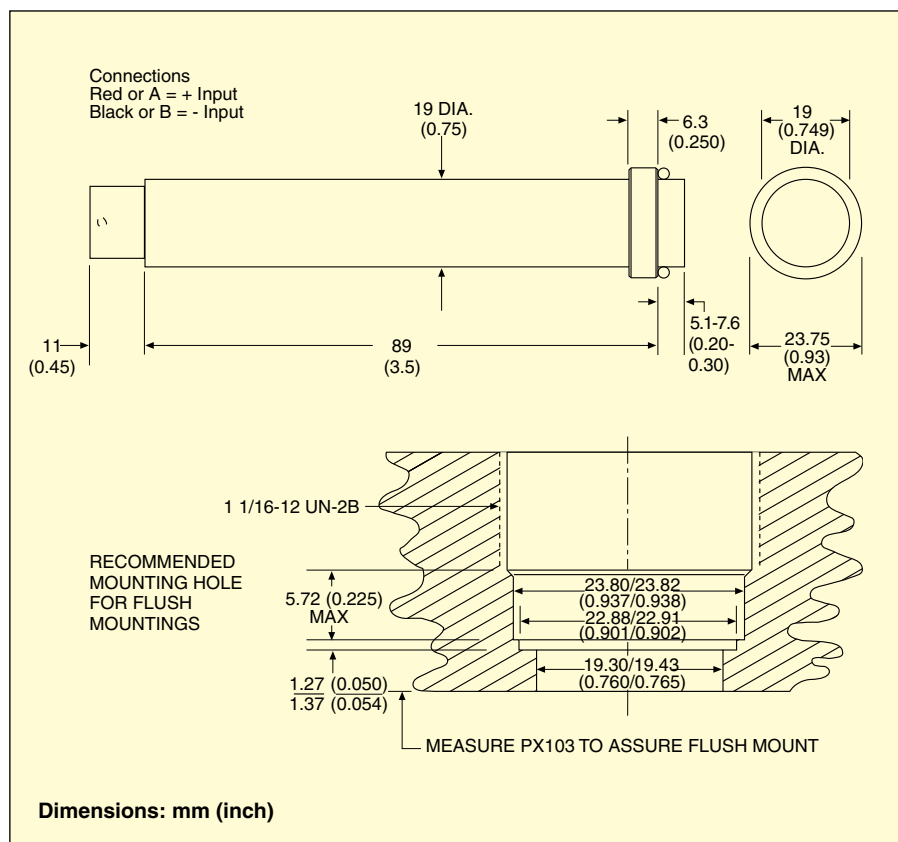
Output: 4 to 20 mA

Zero Balance: 4 mA ±0.2 mA

Accuracy:

<100 psi: ±1% linearity, hysteresis and repeatability combined

≥100 psi: ±0.5% linearity, hysteresis and repeatability combined



Operating Temp Range:

<100 psi: -40 to 82°C (-40 to 180°F)
 ≥100 psi: -46 to 121°C (-50 to 250°F)

Compensated Temp Range:

<100 psi: -1 to 54°C (30 to 130°F)
 ≥100 psi: -18 to 66°C (0 to 150°F)

FLUSH DIAPHRAGM TRANSMITTER

Thermal Effects:

<100 psi:

Span: $\pm 2\%$ within compensated range

Zero: $\pm 1\%$ within compensated range

≥ 100 psi:

Span: 0.003% rdg/°F

Zero: 0.0045% FS/°F

Proof Pressure:

<100 psi: 200% of rated pressure

≥ 100 psi: 150% rated pressure, 30,000 psi maximum

Burst Pressure:

<100 psi: 500% of rated pressure

≥ 100 psi: 300% of rated pressure, 50,000 psi maximum

Wetted Parts:

Ranges <100 psi: 316 SS

Ranges ≥ 100 psi: 17-4 PH SS

O-Ring: Not included #2-018

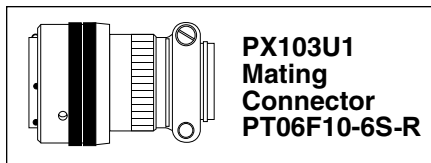
Electrical Connection:

PTIH-10-6P or equal or 3 m (10')

2-conductor shielded PVC cable

Mating Connector:

PT06F10-6S-R (sold separately)



ACCESSORY

MODEL NO.	DESCRIPTION
PT06F10-6S-R	Mating connector for PX103U1 Series

To Order			
RANGE		MODEL NO.	COMPATIBLE METERS**
ABSOLUTE PRESSURE (All Ranges Available in Absolute Pressure)			
0 to 15 psi	0 to 1 bar	PX103U[*]-015AI	DP41-E, DP25B-E, DP24-E
0 to 25 psi	0 to 1.7 bar	PX103U[*]-025AI	DP41-E, DP25B-E, DP24-E
0 to 50 psi	0 to 3.4 bar	PX103U[*]-050AI	DP41-E, DP25B-E, DP24-E
GAGE PRESSURE (All Ranges Also Available in Sealed Gage Pressure)			
0 to 15 psi	0 to 1 bar	PX103U[*]-015GI	DP41-E, DP25B-E, DP24-E
0 to 25 psi	0 to 1.7 bar	PX103U[*]-025GI	DP41-E, DP25B-E, DP24-E
0 to 50 psi	0 to 3.4 bar	PX103U[*]-050GI	DP41-E, DP25B-E, DP24-E
0 to 100 psi	0 to 6.9 bar	PX103U[*]-100GI	DP41-E, DP25B-E, DP24-E
0 to 200 psi	0 to 13.8 bar	PX103U[*]-200GI	DP41-E, DP25B-E, DP24-E
0 to 500 psi	0 to 34.5 bar	PX103U[*]-500GI	DP41-E, DP25B-E, DP24-E
0 to 1000 psi	0 to 68.9 bar	PX103U[*]-1KGI	DP41-E, DP25B-E, DP24-E
0 to 2000 psi	0 to 138 bar	PX103U[*]-2KGI	DP41-E, DP25B-E, DP24-E
0 to 3000 psi	0 to 207 bar	PX103U[*]-3KGI	DP41-E, DP25B-E, DP24-E
0 to 5000 psi	0 to 345 bar	PX103U[*]-5KGI	DP41-E, DP25B-E, DP24-E
0 to 10,000 psi	0 to 689 bar	PX103U[*]-10KGI	DP41-E, DP25B-E, DP24-E
0 to 15,000 psi	0 to 1034 bar	PX103U[*]-15KGI	DP41-E, DP25B-E*, DP24-E
0 to 20,000 psi	0 to 1379 bar	PX103U[*]-20KGI	DP41-E, DP25B-E*, DP24-E

Comes complete with 5-point NIST traceable calibration.

Metric ranges available – consult Engineering.

* 4-digit meter, counts in increments of 10.

** Visit us online for compatible meters.

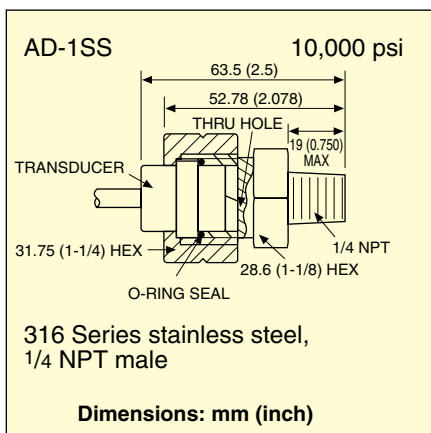
[*] To order cable style insert “0” into model number; to order connector style insert “1”.

To order absolute pressure ranges, replace “G” in model number with “A” and add **additional cost**.

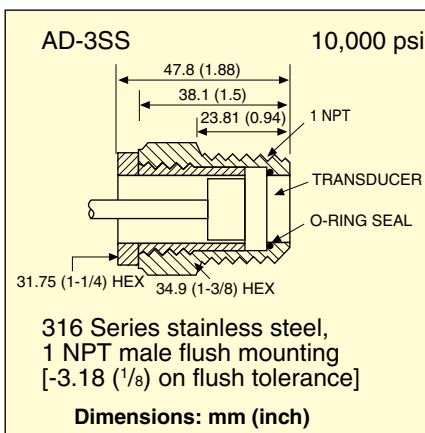
To order sealed gage pressure models, replace “G” in model number with “S” (no extra charge). To order extra lead length [3 m (10') standard], add suffix “-(Length of cable in feet)” and **additional cost** for each foot beyond 10'.

Ordering Example: PX103U1-100GI, 100 psi gage pressure, connector style transducer PT06F10-6S-R, mating connector (sold separately).

Flush Mount Adaptors for PX103 Series Transducers



O-Ring Provided with Each Adaptor



“O” RINGS FKM or Polyurethane

Use for pressures under
10,000 psi:
#2-018-V

FKM Pack of 10

Use for pressures of
10,000 psi and higher:
#2-018-P

POLYURETHANE Pack of 15