

How to Order PX309 Series with 100 mV Outputs



100 mV Output
0-1 to 0-10,000 psi
0-70 mbar to 0-690 bar

PX309 Series



Standard

100 mV Output Specifications
(In Addition to Common Specifications on page 2)
Setting Accuracy Zero and Span:
±2% FS (±4% FS for 1 and 2 psi)
Supply Voltage:
-15 to 50 psig and 0 to 1000 psia: 10 Vdc, 100 to 10,000 psig: 5 Vdc typical

100 mV Outputs		
Range	Output	Excitation*
5 to 1000 psia	100 mV	10 Vdc
1 psig	20 mV	10 Vdc
2 psig	40 mV	10 Vdc
5 to 50 psig	100 mV	10 Vdc
100 to 10,000 psig	100 mV	5 Vdc
0 to -15 psig	0 to 100 mV	10 Vdc
-15 to 0 to +15 psig	-100 to 0 to +100 mV	10 Vdc
-15 to 30/50 psig	0 to 100 mV	10 Vdc
-15 to 100/150 psig	0 to 100 mV	5 Vdc

* Ratiometric Excitation Range: 2 to 10 or 1 to 5 Vdc

Input Impedance: 4k to 13k Ω

Output Impedance: 4k to 6k Ω

Zero Shift:

-15 to 50 psig and 0 to 1000 psia: ±0.03%/°C (0 to 5 psig/psia is ±0.06%/°C, 0 to 2 psig is ±0.08%/°C, 0 to 1 psig is ±0.1%/°C). 100 to 10,000 psig: ±2% over compensated range ref 25°C

Span Shift:

-15 to 50 psig and 0 to 1000 psia: ±0.03%/°C (0 to 5 psig/psia is ±0.04%/°C, 0 to 2 psig is ±0.05%/°C, 0 to 1 psig is ±0.06%/°C). 100 to 10,000 psig: ±2% over compensated range ref 25°C

Compensated Temperature:

-15 to 50 psig and 0 to 1000 psia: 0 to 50°C, 100 to 10,000 psig: 0 to 55°C

Metric Versions of PX309 also available from OMEGA. Please see PXM309 series.

PX319-050GV, mini DIN connector included, shown smaller than actual size.



mini DIN style.

Range		1.5 m Cable Connection	mini DIN Connection	Twist-Lock Connection	M12 Connection
psi	bar				
Absolute Pressure					
0 to 5	0 to 0.34	PX309-005AV	PX319-005AV	PX329-005AV	PX359-005AV
0 to 15	0 to 1	PX309-015AV	PX319-015AV	PX329-015AV	PX359-015AV
0 to 30	0 to 2.1	PX309-030AV	PX319-030AV	PX329-030AV	PX359-030AV
0 to 50	0 to 3.4	PX309-050AV	PX319-050AV	PX329-050AV	PX359-050AV
0 to 100	0 to 6.9	PX309-100AV	PX319-100AV	PX329-100AV	PX359-100AV
0 to 200	0 to 14	PX309-200AV	PX319-200AV	PX329-200AV	PX359-200AV
0 to 300	0 to 21	PX309-300AV	PX319-300AV	PX329-300AV	PX359-300AV
0 to 500	0 to 34	PX309-500AV	PX319-500AV	PX320-500AV	PX359-500AV
0 to 1000	0 to 69	PX309-1KAV	PX319-1KAV	PX329-1KAV	PX359-1KAV
Gage Pressure					
0 to 1	0 to 0.07	PX309-001GV	PX319-001GV	PX329-001GV	PX359-001GV
0 to 2	0 to 0.14	PX309-002GV	PX319-002GV	PX329-002GV	PX359-002GV
0 to 5	0 to 0.34	PX309-005GV	PX319-005GV	PX329-005GV	PX359-005GV
0 to 15	0 to 1	PX309-015GV	PX319-015GV	PX329-015GV	PX359-015GV
0 to 30	0 to 2.1	PX309-030GV	PX319-030GV	PX329-030GV	PX359-030GV
0 to 50	0 to 3.4	PX309-050GV	PX319-050GV	PX329-050GV	PX359-050GV
0 to 100	0 to 6.9	PX309-100GV	PX319-100GV	PX329-100GV	PX359-100GV
0 to 150	0 to 10	PX309-150GV	PX319-150GV	PX329-150GV	PX359-150GV
0 to 200	0 to 14	PX309-200GV	PX319-200GV	PX329-200GV	PX359-200GV
0 to 300	0 to 21	PX309-300GV	PX319-300GV	PX329-300GV	PX359-300GV
0 to 500	0 to 34	PX309-500GV	PX319-500GV	PX329-500GV	PX359-500GV
0 to 1000	0 to 69	PX309-1KGV	PX319-1KGV	PX329-1KGV	PX359-1KGV
0 to 2000	0 to 138	PX309-2KGV	PX319-2KGV	PX329-2KGV	PX359-2KGV
0 to 3000	0 to 207	PX309-3KGV	PX319-3KGV	PX329-3KGV	PX359-3KGV
0 to 5000	0 to 345	PX309-5KGV	PX319-5KGV	PX329-5KGV	PX359-5KGV
0 to 7500	0 to 517	PX309-7.5KGV	PX319-7.5KGV	PX329-7.5KGV	PX359-7.5KGV
0 to 10,000	0 to 690	PX309-10KGV	PX319-10KGV	PX329-10KGV	PX359-10KGV
Vacuum and Compound Gage Pressure					
-0 to -15	—	PX309-015VV	PX319-015VV	PX329-015VV	PX359-015VV
-15 to 0 to +15	—	PX309-015CGV	PX319-015CGV	PX329-015CGV	PX359-015CGV
-15 to 30	-1.03 to 2.1	PX309-V030GV	PX319-V030GV	PX329-V030GV	PX359-V030GV
-15 to 50	-1.03 to 3.4	PX309-V050GV	PX319-V050GV	PX329-V050GV	PX359-V050GV
-15 to 100	-1.03 to 6.9	PX309-V100GV	PX319-V100GV	PX329-V100GV	PX359-V100GV
-15 to 150	-1.03 to 10.3	PX309-V150GV	PX319-V150GV	PX329-V150GV	PX359-V150GV

Comes complete with 5-point NIST-traceable calibration.

Notes: 1. Units 100 psig and above may be subjected to vacuum on the pressure port without damage. 2. For alternative performance specifications to suit your application, contact Engineering.

Ordering Examples: PX309-100GV, 100 psi gage pressure transducer with 100 mV output at 5 Vdc excitation and 1.5 m cable termination. PX319-015AV, 15 psi absolute pressure transducer with 100 mV output @ 10 Vdc excitation and mini DIN termination.

PX329-3KGV, 3000 psi gage pressure transducer with 100 mV output @ 5 Vdc excitation and twist-lock 6 pin connector termination. Mating connector sold separately, order PT06V-10-6S, Consult Sales for OEM pricing.

How to Order PX309 Series with 0 to 5 Vdc Output



0 to 5 Vdc Output
0-1 to 0-10,000 psi
0-70 mbar to 0-690 bar

PX329-015G5V
shown smaller than
actual size.



Twist-lock
style.

PX309 Series



Standard

5V Output Specifications

(In Addition to Common
Specifications on page 2)

**Total Error Band (Includes
Linearity, Hysteresis,
Repeatability, Thermal
Hysteresis and Thermal Errors,
Not Including Zero and Span
Setting Accuracy):** ±1.0%
(5 psig/psia is ±1.5%, 2 psig
is 3.0% and 1 psig is 4.5%)
Supply Voltage: 9 to 30 Vdc,
Supply Current < 10 mA

0 to 5 Vdc Outputs		
Range	Output	Excitation*
5 to 1000 psia	0 to 5 Vdc	9 to 30 Vdc
1 to 10,000 psig	0 to 5 Vdc	9 to 30 Vdc
-15 to 30/50/100/ 150 psig	0 to 5 Vdc	9 to 30 Vdc
0 to -15 psig	0 to 5 Vdc	9 to 30 Vdc
-15 to 0 to +15 psig	-5 to 0 to +5 Vdc	9 to 30 Vdc

* Supply Current < 10 mA

Compensated Temperature:

-20 to 85°C (± 5 psig/psia
is 0 to 50°C)

To Order

Range		1.5 m Cable Connection	mini DIN Connection	Twist-Lock Connection	M12 Connection
psi	bar				
Absolute Pressure					
0 to 5	0 to 0.34	PX309-005A5V	PX319-005A5V	PX329-005A5V	PX359-005A5V
0 to 15	0 to 1	PX309-015A5V	PX319-015A5V	PX329-015A5V	PX359-015A5V
0 to 30	0 to 2.1	PX309-030A5V	PX319-030A5V	PX329-030A5V	PX359-030A5V
0 to 50	0 to 3.4	PX309-050A5V	PX319-050A5V	PX329-050A5V	PX359-050A5V
0 to 100	0 to 6.9	PX309-100A5V	PX319-100A5V	PX329-100A5V	PX359-100A5V
0 to 200	0 to 14	PX309-200A5V	PX319-200A5V	PX329-200A5V	PX359-200A5V
0 to 300	0 to 21	PX309-300A5V	PX319-300A5V	PX329-300A5V	PX359-300A5V
0 to 500	0 to 34	PX309-500A5V	PX319-500A5V	PX329-500A5V	PX359-500A5V
0 to 1000	0 to 69	PX309-1KA5V	PX319-1KA5V	PX329-1KA5V	PX359-1KA5V
Gage Pressure					
0 to 1	0 to 0.07	PX309-001G5V	PX319-001G5V	PX329-001G5V	PX359-001G5V
0 to 2	0 to 0.14	PX309-002G5V	PX319-002G5V	PX329-002G5V	PX359-002G5V
0 to 5	0 to 0.34	PX309-005G5V	PX319-005G5V	PX329-005G5V	PX359-005G5V
0 to 15	0 to 1	PX309-015G5V	PX319-015G5V	PX329-015G5V	PX359-015G5V
0 to 30	0 to 2.1	PX309-030G5V	PX319-030G5V	PX329-030G5V	PX359-030G5V
0 to 50	0 to 3.4	PX309-050G5V	PX319-050G5V	PX329-050G5V	PX359-050G5V
0 to 100	0 to 6.9	PX309-100G5V	PX319-100G5V	PX329-100G5V	PX359-100G5V
0 to 150	0 to 10	PX309-150G5V	PX319-150G5V	PX329-150G5V	PX359-150G5V
0 to 200	0 to 14	PX309-200G5V	PX319-200G5V	PX329-200G5V	PX359-200G5V
0 to 300	0 to 21	PX309-300G5V	PX319-300G5V	PX329-300G5V	PX359-300G5V
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0 to 1000	0 to 69	PX309-1KG5V	PX319-1KG5V	PX329-1KG5V	PX359-1KG5V
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0 to 3000	0 to 207	PX309-3KG5V	PX319-3KG5V	PX329-3KG5V	PX359-3KG5V
0 to 5000	0 to 345	PX309-5KG5V	PX319-5KG5V	PX329-5KG5V	PX359-5KG5V
0 to 7500	0 to 517	PX309-7.5KG5V	PX319-7.5KG5V	PX329-7.5KG5V	PX359-7.5KG5V
0 to 10,000	0 to 690	PX309-10KG5V	PX319-10KG5V	PX329-10KG5V	PX359-10KG5V
Vacuum and Compound Gage Pressure					
0 to -15	—	PX309-015V5V	PX319-015V5V	PX329-015V5V	PX359-015V5V
-15 to 0 to +15	—	PX309-015CG5V	PX319-015CG5V	PX329-015CG5V	PX359-015CG5V
-15 to 30	-1.03 to 2.1	PX309-V030G5V	PX319-V030G5V	PX329-V030G5V	PX359-V030G5V
-15 to 50	-1.03 to 3.4	PX309-V050G5V	PX319-V050G5V	PX329-V050G5V	PX359-V050G5V
-15 to 100	-1.03 to 6.9	PX309-V100G5V	PX319-V100G5V	PX329-V100G5V	PX359-V100G5V
-15 to 150	-1.03 to 10.3	PX309-V150G5V	PX319-V150G5V	PX329-V150G5V	PX359-V150G5V

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