

HIGH-ACCURACY ELECTRONIC BAROMETER

STANDARD AND METRIC MODELS

0 to 5 Vdc or 4 to 20 mA Output
3 Ranges Available
16 to 32 inHg – 542 to 1084 hPa
26 to 32 inHg – 880 to 1084 hPa
28 to 32 inHg – 948 to 1084 hPa

PX02/PXM02 Series



Standard

- ✓ High Accuracy
- ✓ Broad Compensated Temperature Range
-18 to 66°C (0 to 150°F)
- ✓ All Stainless Steel Construction
- ✓ Hermetically Sealed for Harsh Environments
- ✓ Cable or Connector Models
- ✓ Mounting Bracket Option
- ✓ Optional Pressure Ports to Fit Most Industrial Applications

OMEGA's PX02 electronic barometer is a high-accuracy electronic barometer available in three ranges: 16 to 32 inHg, 26 to 32 inHg, or 28 to 32 inHg (absolute pressure) for laboratory or industrial test applications.

SPECIFICATIONS

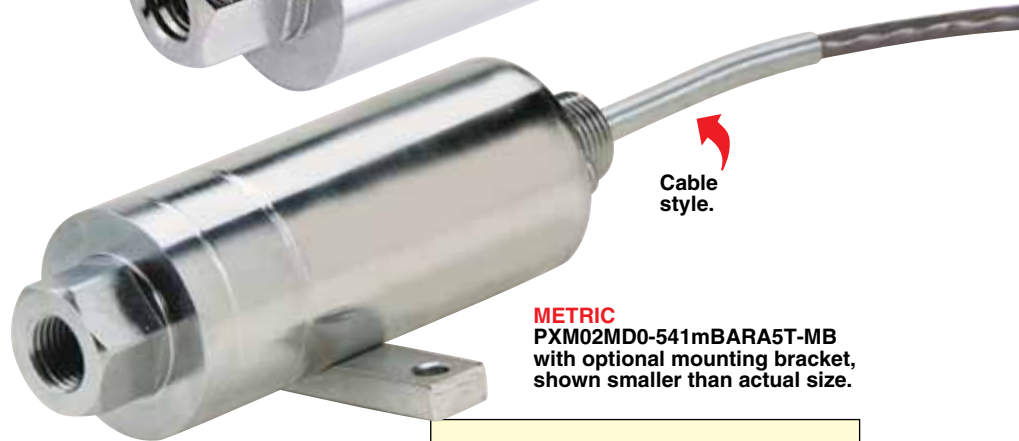
0 to 5 V Model
Input, Recommended: 24 to 32 Vdc
Input, Maximum: 32 Vdc
Output, FS: 0 to 5 Vdc
Linearity: ±0.15% FS
Hysteresis: ±0.1% FS
Repeatability: ±0.05% FS
Zero Balance: 0 ±10% FS, adjustable
Thermal Effects:
Span: 0.005% rdg/°F (0.009%/°C)
Zero: 0.005% FS/°F (0.009%/°C)

4 to 20 mA Model
Input, Recommended: 10 to 40 Vdc

STANDARD
 PX02K1-26A5T
 shown smaller
 than actual size.



Twist-lock style.



Cable style.

METRIC
 PXM02MD0-541mBARA5T-MB
 with optional mounting bracket,
 shown smaller than actual size.

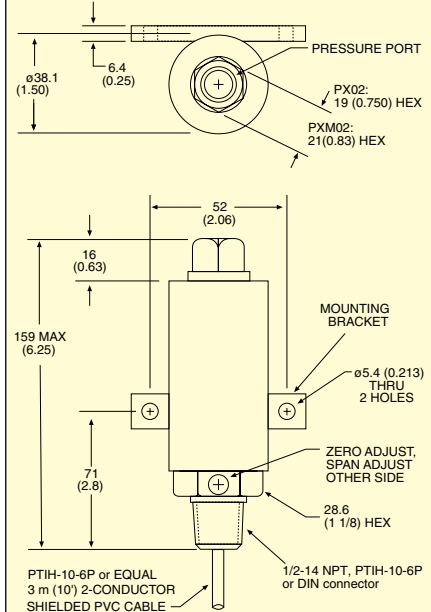
Available with
 Optional Mounting
 Bracket

Input, Maximum: 40 Vdc
Output, FS: 4 to 20 mA
Accuracy: 0.25% FS, linearity, hysteresis and repeatability combined
Zero Balance: 4 mA +10% -2% FS adj
Thermal Effects:
Span: 0.005% rdg/°F (0.009%/°C)
Zero: 0.005% FS/°F (0.009%/°C)

COMMON SPECIFICATIONS

Operating Temp Range: -47 to 121°C (-50 to 250°F)
Compensated Temp Range: -18 to 66°C (0 to 150°F)
Proof Pressure: 150% of rated pressure
Burst Pressure: 300% of rated pressure
Wetted Parts: 17-4 PH stainless steel
Pressure Port: See Custom Configurations
Electrical Connection: PTIH-10-6P or equal; 3 m (10') cable: DIN connector
Mating Connector (Style 1): PT06F10-6S (sold separately)
Weight: 425 g (15 oz)

PX02/PXM02 Barometer with Mounting Bracket

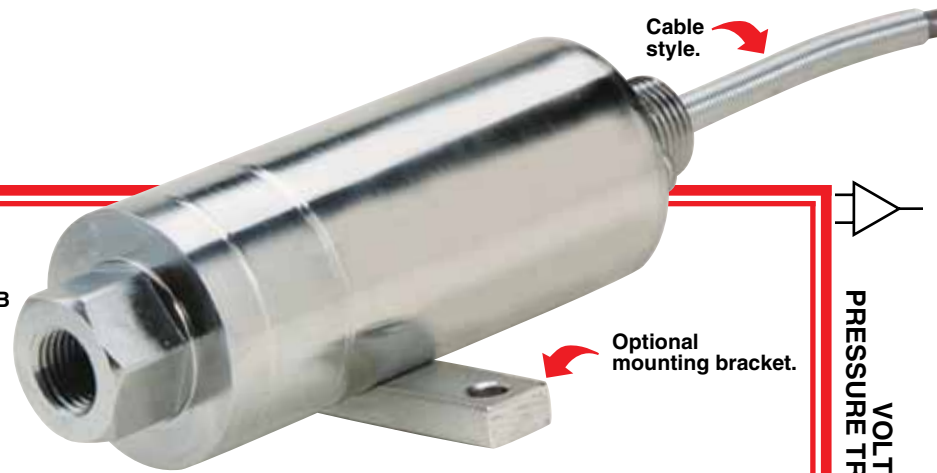


Dimensions: mm (inch)
 ø = diameter

WIRING

DIN	Voltage	DIN	Current
2	A +Sig Green	1	A +Red
3	B -Sig White	2	B -Black
GND	C -Exc Black		
1	D +Exc Red		
	E Shunt		
	F Shunt		

ELECTRONIC BAROMETER



PXM02MD0-541mBARA5T-MB cable style, with optional mounting bracket, shown actual size.

STANDARD CUSTOM CONFIGURATIONS

SERIES PX02 Barometer	PRESSURE PORT [1]	ELECTRICAL CONNECTION [2]	RANGE (inHg) [3]	UNITS [4]	OUTPUT [5]	OPTIONS [6]
C = 1/4-18 NPT-M D = 1/4-18 NPT-F J = 7/16-20 UNF-M K = 7/16-20 UNF-F			16 to 32 inHg 26 to 32 inHg 28 to 32 inHg	A A A	5T = 0 to 5 Vdc output I = 4 to 20 mA output	OX = Cleaned for oxygen service OL = Overload stops ()M = Optional cable length in meters -MB = Mounting bracket + additional cost
<p>0 = 3 m (10') cable (std) + add cost/ft over 3 m (10')</p> <p>1 = PTIH-10-6P connector (or equal) Mating connector (sold separately), order PT06F10-6S.</p> <p>5 = Lightning-protected amplifier box (4 to 20 mA models only)</p> <p>6 = mini DIN connector</p>						
<p>To order a custom configuration:</p> <ol style="list-style-type: none"> 1. Select a pressure port 2. Select electrical connection 3. Select a pressure range 4. Select pressure units 5. Select output 6. Select options 						

Ordering Examples: PX02K1-26AI-MB, 26 to 32 inHg calibrated electronic barometer with 7/16-20 UNF internal connection, 4 to 20 mA output, twist connector and optional mounting bracket. PT06F10-6S, mating connector (sold separately).

PX02 K1-28A5T-MB, 28 to 32 inHg calibrated electronic barometer with 7/16-20 UNF internal connection, 0 to 5 Vdc output and twist connector. PT06F10-6S, mating connector (sold separately).

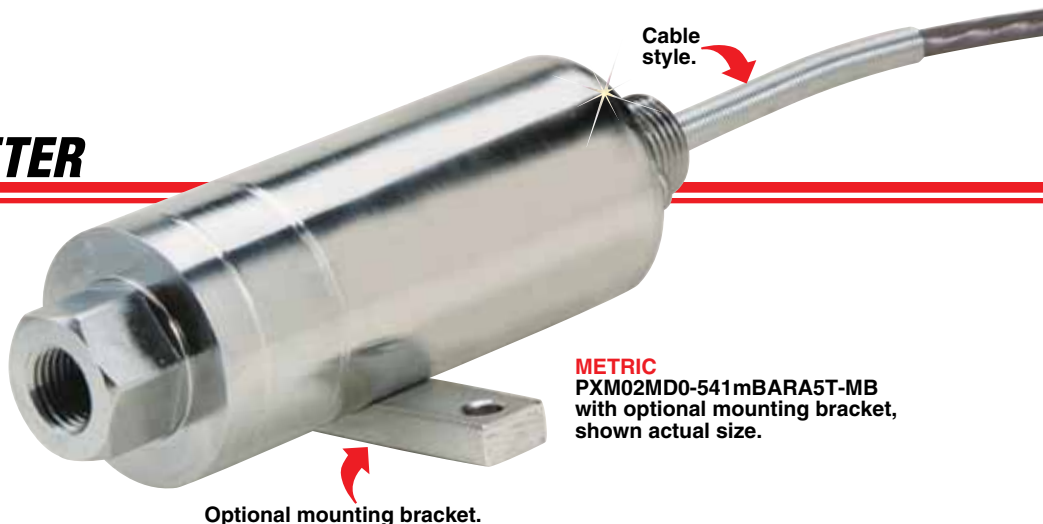
METRIC CUSTOM CONFIGURATIONS

SERIES PXM02 Barometer	PRESSURE PORT [1]	ELECTRICAL CONNECTION [2]	RANGE (hPa) [3]	UNITS [4]	OUTPUT [5]	OPTIONS [6]
MA = G1/8 Male MB = G1/8 Female MC = G1/4 Male MD = G1/4 Female			542 to 1084 hPa 880 to 1084 hPa 948 to 1084 hPa	A A A	5T = 0 to 5 Vdc output I = 4 to 20 mA output	OX = Cleaned for oxygen service OL = Overload stops ()m = optional cable length in meters -MB = Mounting bracket + additional cost
<p>0 = 3 m (10') cable (std) + add cost/m over 3 m (10')</p> <p>1 = PTIH-10-6P connector (or equal) Mating connector (sold separately), order PT06F10-6S</p> <p>5 = Lightning-protected amplifier box (4 to 20 mA models only)</p> <p>6 = mini DIN connector</p>						
<p>To order a custom configuration:</p> <ol style="list-style-type: none"> 1. Select a pressure port 2. Select electrical connection 3. Select a pressure range 4. Select pressure units 5. Select output 6. Select options 						

Ordering Examples: PXM02MD1-880MBARAI-MB, 880 to 1084 hPa calibrated electronic barometer with G1/4 female pressure port, 4 to 20 mA output, twist-lock connector and optional mounting bracket. PT06F10-6S, mating connector (sold separately).

PXM02MCO-948A5T-MB, 948 to 1084 hPa calibrated electronic barometer with G1/4 male pressure port, 0 to 5 Vdc output and 3 m (10') cable.

ELECTRONIC BAROMETER



METRIC
PXM02MD0-541mBARA5T-MB
with optional mounting bracket,
shown actual size.

STANDARD MODELS

To Order				
MODELS WITH 1/16-20 UNF INTERNAL CONNECTION AND TWIST-LOCK CONNECTOR				
RANGE			BAROMETER MODEL NO.	COMPATIBLE METERS*
inHg	hPa	mmHg		
0 TO 5 V OUTPUT				
16 to 32	542 to 1084	406 to 813	PX02K1-16A5T	DP41-E, DP25B-E, DP24-E
26 to 32	880 to 1084	660 to 813	PX02K1-26A5T	DP41-E, DP25B-E, DP24-E
28 to 32	948 to 1084	711 to 813	PX02K1-28A5T	DP41-E, DP25B-E, DP24-E
4 TO 20 mA OUTPUT				
16 to 32	542 to 1084	406 to 813	PX02K1-16AI	DP41-E, DP25B-E, DP24-E
26 to 32	880 to 1084	660 to 813	PX02K1-26AI	DP41-E, DP25B-E, DP24-E
28 to 32	948 to 1084	711 to 813	PX02K1-28AI	DP41-E, DP25B-E, DP24-E

Comes complete with 5-point NIST-traceable calibration.

* Visit omega.com for compatible meters.

Ordering Examples: PX02K1-26AI, 26 to 32 inHg calibrated electronic barometer with 1/16-20 UNF internal connection, 4 to 20 mA output, PTIH-10-6P connector. PT06F10-6S, mating connector (sold separately).

PX02K1-28A5T-MB, 28 to 32 inHg calibrated electronic barometer with 1/16-20 UNF internal connection, 0 to 5 Vdc output, PTIH-10-6P connector and optional mounting bracket. PT06F10-6S, mating connector (sold separately).

METRIC MODELS

MODELS WITH G 1/4 INTERNAL CONNECTION WITH CABLE OR CONNECTOR AND 5 V OUTPUT				
RANGE			BAROMETER MODEL NO.	COMPATIBLE METERS*
hPa	mmHg			
0 TO 5 V OUTPUT				
541-1084	406-813		PXM02MD0-541mBARA5T	DP41-E, DP25B-E, DP24-E
880-1084	660-813		PXM02MD0-880mBARA5T	DP41-E, DP25B-E, DP24-E
948-1084	711-813		PXM02MD0-948mBARA5T	DP41-E, DP25B-E, DP24-E
4 TO 20 mA OUTPUT				
541-1084	406-813		PXM02MD0-541mBARAI	DP41-E, DP25B-E, DP24-E
880-1084	660-813		PXM02MD0-880mBARAI	DP41-E, DP25B-E, DP24-E
948-1084	711-813		PXM02MD0-948mBARAI	DP41-E, DP25B-E, DP24-E

Comes complete with 5-point NIST-traceable calibration.

* Visit omega.com for compatible meters.

To order different process connections, see custom configurations below.

Ordering Examples: PXM02MD0-541mBARAI-MB, 541 to 1084 hPa calibrated electronic barometer with G1/4 internal thread, 4 to 20 mA output, 3 m (10') cable and the optional mounting bracket.

PXM02MD6-880mBARA5T-MB, 880 to 1084 hPa calibrated electronic barometer with G1/4 internal connection, 0 to 5 Vdc output, mini-DIN connector and the optional mounting bracket. PT06F10-6S, mating connector (sold separately).

OPTION

ORDER SUFFIX	DESCRIPTION
-MB	Mounting Bracket