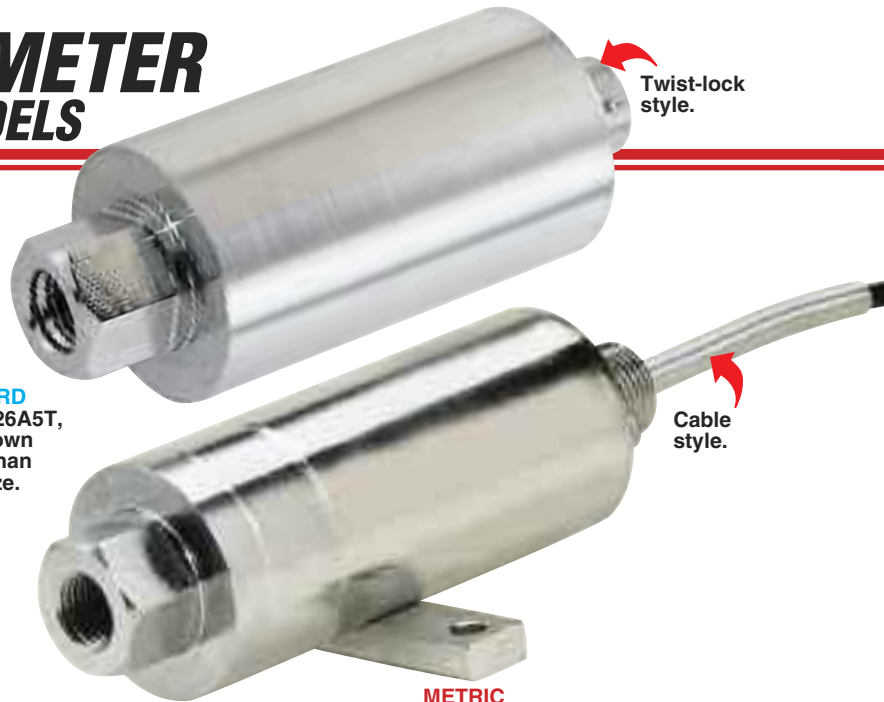


HIGH-ACCURACY ELECTRONIC BAROMETER STANDARD AND METRIC MODELS

PX02/PXM02 Series
 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

Starts at
\$705



STANDARD
 PX02K1-26A5T,
 \$705, shown
 smaller than
 actual size.

METRIC
 PXM02MD0-541mBARA5T-MB,
 \$705, with optional mounting
 bracket, \$35, shown smaller
 than actual size.

Available with
 Optional Mounting
 Bracket

- ✓ 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)

Agency Approvals: FM Intrinsically Safe; IS/I.II.III/1/CDEFG

4 to 20 mA Model

Input, Recommended: 10 to 40 Vdc

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)

Agency Approvals: FM Intrinsically Safe; IS/I.II.III/1/ABCDEFG

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

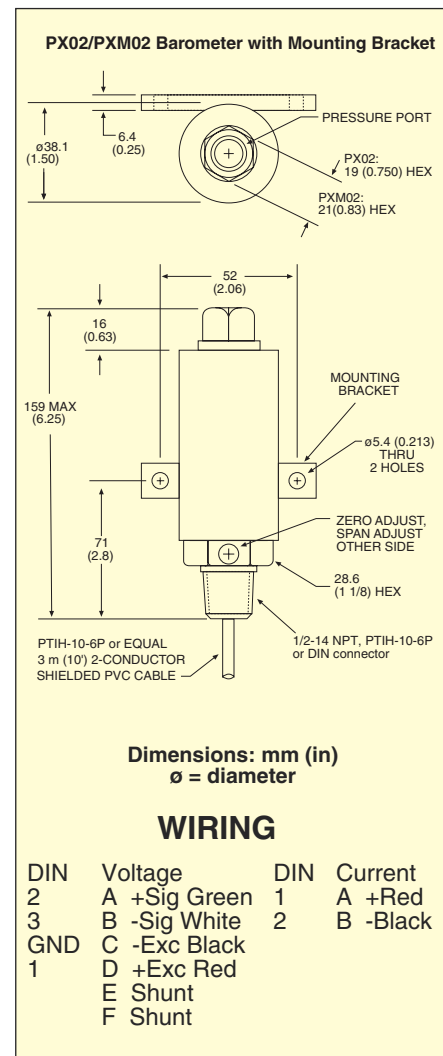
Burst Pressure: 300% of rated pressure

Wetted Parts: 17-4 PH stainless steel
Pressure Port: See Custom Configurations

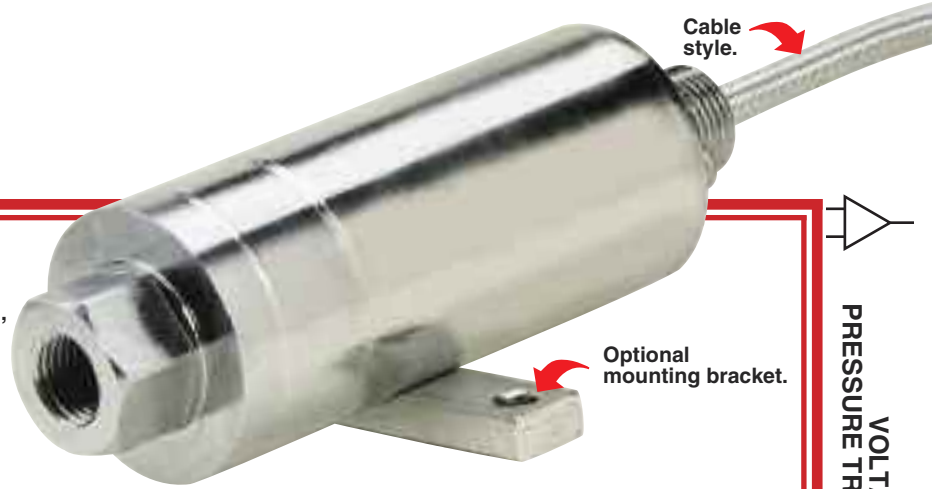
Electrical Connection: PTIH-10-6P or equal; 3 m (10') cable: DIN connector

Mating Connector (Style 1): PT06F10-6S (sold separately)

Weight: 425 g (15 oz)



ELECTRONIC BAROMETER



PXM02MD0-541mBARA5T-MB, cable style, \$705, with optional mounting bracket, \$35, 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 +\$20			16 to 32 inHg	A	5T = 0 to 5 Vdc output \$705 all ranges	OX = Cleaned for oxygen service
D = 1/4-18 NPT-F, no charge			26 to 32 inHg	A		OL = Overload stops
J = 7/16-20 UNF-M +\$20			28 to 32 inHg	A	I = 4 to 20 mA output \$725 all ranges	()M = Optional cable length in meters
K = 7/16-20 UNF-F, no charge						-MB = Mounting bracket \$35

- 0 = 3 m (10') cable (std)
+\$6.50/ft over 3 m (10')
- 1 = PTIH-10-6P connector (or equal, no charge). Mating connector (sold separately), order **PT06F10-6S, \$26.50**
- 5 = Lightning-protected amplifier box (no charge) (4 to 20 mA models only)
- 6 = mini DIN connector

To order a custom configuration:

1. Select a pressure port
2. Select electrical connection
3. Select a pressure range
4. Select pressure units
5. Select output
6. Select options and agency approvals

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, \$725 + 35 = \$760. PT06F10-6S, mating connector (sold separately), \$26.50.

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, \$705 + 35 = \$740. PT06F10-6S, mating connector (sold separately), \$26.50.

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			542 to 1084 hPa	A	5T = 0 to 5 Vdc output \$705 all ranges	OX = Cleaned for oxygen service
MB = G1/8 Female, no charge			880 to 1084 hPa	A		OL = Overload stops
MC = G1/4 Male			948 to 1084 hPa	A	I = 4 to 20 mA output \$725 all ranges	()m = optional cable length in meters
MD = G1/4 Female, no charge						-MB = Mounting bracket \$35

- 0 = 3 m (10') cable (std)
+\$15/m over 3 m (10')
- 1 = PTIH-10-6P connector (or equal, no charge). Mating connector (sold separately), order **PT06F10-6S, \$26.50**
- 5 = Lightning-protected amplifier box (4 to 20 mA models only)
- 6 = mini DIN connector

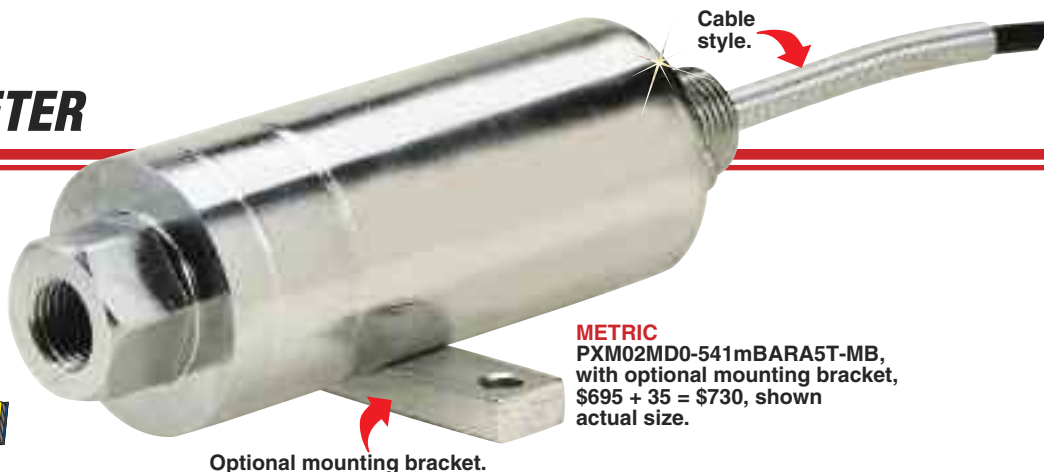
To order a custom configuration:

1. Select a pressure port
2. Select electrical connection
3. Select a pressure range
4. Select pressure units
5. Select output
6. Select options and agency approvals

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, \$725 + 35 = \$760. PT06F10-6S, mating connector (sold separately), \$26.50.

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, \$705 + 35 = \$740.

ELECTRONIC BAROMETER



Recommended Reference Book:
Principles and Practice of Automatic
Process Control,
CM-4225, \$185.
See Section Y for Additional Books



METRIC
PXM02MD0-541mBARA5T-MB,
with optional mounting bracket,
\$695 + 35 = \$730, shown
actual size.

Optional mounting bracket.

STANDARD MODELS

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

MODELS WITH 1/16-20 UNF INTERNAL CONNECTION AND TWIST-LOCK CONNECTOR

RANGE			BAROMETER MODEL NO.	PRICE	COMPATIBLE METERS*
inHg	hPa	mmHg			
0 TO 5 V OUTPUT					
16 to 32	542 to 1084	406 to 813	PX02K1-16A5T	\$705	DP41-E, DP25B-E, DP24-E
26 to 32	880 to 1084	660 to 813	PX02K1-26A5T	705	DP41-E, DP25B-E, DP24-E
28 to 32	948 to 1084	711 to 813	PX02K1-28A5T	705	DP41-E, DP25B-E, DP24-E
4 TO 20 mA OUTPUT					
16 to 32	542 to 1084	406 to 813	PX02K1-16AI	\$725	DP41-E, DP25B-E, DP24-E
26 to 32	880 to 1084	660 to 813	PX02K1-26AI	725	DP41-E, DP25B-E, DP24-E
28 to 32	948 to 1084	711 to 813	PX02K1-28AI	725	DP41-E, DP25B-E, DP24-E

Comes complete with 5-point NIST-traceable calibration.

* See section D 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, \$725. PT06F10-6S, mating connector (sold separately), \$26.50.

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, \$705 + 35 = \$740. PT06F10-6S, mating connector (sold separately), \$26.50.

METRIC MODELS

MODELS WITH G 1/4 INTERNAL CONNECTION WITH CABLE OR CONNECTOR AND 5 V OUTPUT

RANGE		BAROMETER MODEL NO.	PRICE	COMPATIBLE METERS*
hPa	mmHg			
0 TO 5 V OUTPUT				
541-1080	406-813	PXM02MD0-541mBARA5T	\$695	DP41-E, DP25B-E, DP24-E
880-1080	660-813	PXM02MD0-880mBARA5T	695	DP41-E, DP25B-E, DP24-E
948-1080	711-813	PXM02MD0-948mBARA5T	695	DP41-E, DP25B-E, DP24-E
4 TO 20 mA OUTPUT				
541-1080	406-813	PXM02MD0-541mBARAI	\$695	DP41-E, DP25B-E, DP24-E
880-1080	660-813	PXM02MD0-880mBARAI	695	DP41-E, DP25B-E, DP24-E
948-1080	711-813	PXM02MD0-948mBARAI	695	DP41-E, DP25B-E, DP24-E

Comes complete with 5-point NIST-traceable calibration.

* See section D for compatible meters.

To order different process connections, see custom configurations below.

Ordering Examples: PXM02MD0-541mBARAI-MB, 541 to 1080 hPa calibrated electronic barometer with G1/4 internal thread, 4 to 20 mA output, 3 m (10') cable and the optional mounting bracket, \$695 + 35 = \$730.

PXM02MD6-880mBARA5T-MB, 880 to 1080 hPa calibrated electronic barometer with G1/4 internal connection, 0 to 5 Vdc output, mini-DIN connector and the optional mounting bracket, \$695 + 35 = \$730. PT06F10-6S, mating connector (sold separately), \$26.50.

OPTION

ORDER SUFFIX	ADD'L PRICE	DESCRIPTION
-MB	\$35	Mounting Bracket



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