

# 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

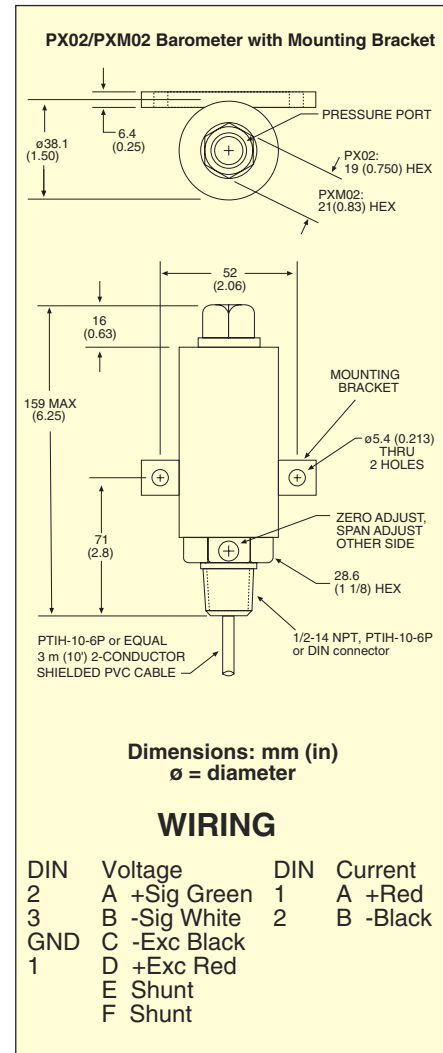
**Burst Pressure:** 300% of rated pressure

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

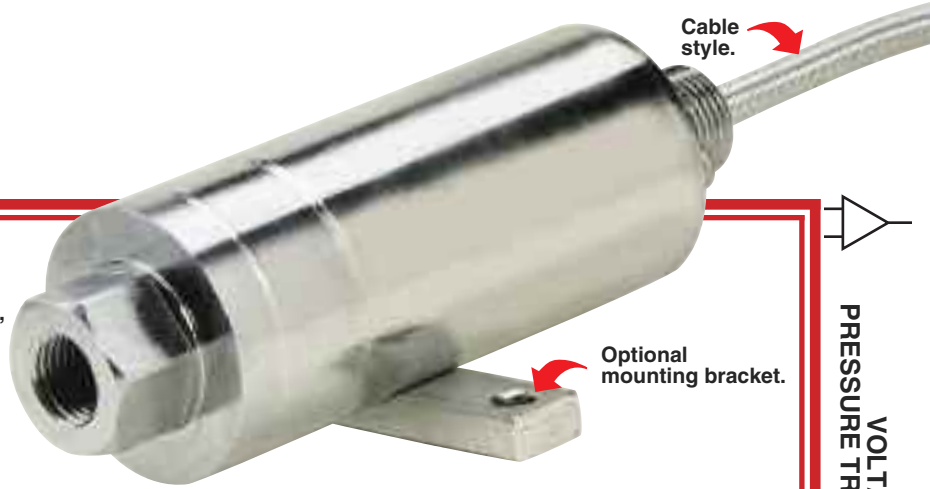
**Electrical Connection:** PTIH-10-6P or equal; 3 m (10') cable: DIN connector

**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 ]
	<b>C</b> = 1/4-18 NPT-M +\$20 <b>D</b> = 1/4-18 NPT-F, no charge <b>J</b> = 7/16-20 UNF-M +\$20 <b>K</b> = 7/16-20 UNF-F, no charge		16 to 32 inHg 26 to 32 inHg 28 to 32 inHg	A A A	<b>5T</b> = 0 to 5 Vdc output \$705 all ranges <b>I</b> = 4 to 20 mA output \$725 all ranges	<b>OX</b> = Cleaned for oxygen service <b>OL</b> = Overload stops ( <b>)m</b> = Optional cable length in meters <b>-MB</b> = Mounting bracket \$35
<p><b>0</b> = 3 m (10') cable (std) +\$6.50/ft over 3 m (10')</p> <p><b>1</b> = PTIH-10-6P connector (or equal, no charge). Mating connector (sold separately), order <b>PT06F10-6S, \$26.50</b></p> <p><b>5</b> = Lightning-protected amplifier box (no charge) (4 to 20 mA models only)</p> <p><b>6</b> = mini DIN connector</p>						
<p><b>To order a custom configuration:</b></p> <ol style="list-style-type: none"> <li>1. Select a pressure port</li> <li>2. Select electrical connection</li> <li>3. Select a pressure range</li> <li>4. Select pressure units</li> <li>5. Select output</li> <li>6. Select options and agency approvals</li> </ol>						

**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**.

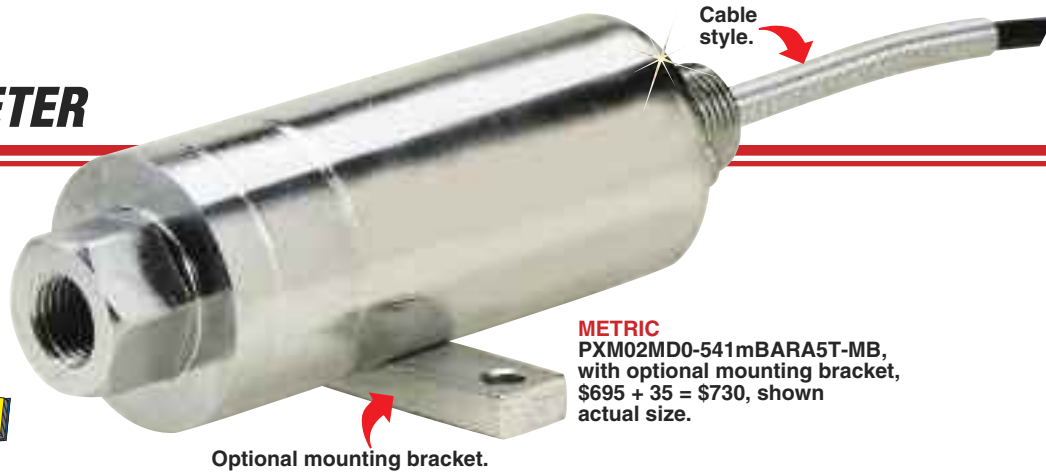
## METRIC CUSTOM CONFIGURATIONS

SERIES PXM02 Barometer	PRESSURE PORT [ 1 ]	ELECTRICAL CONNECTION [ 2 ]	RANGE (hPa) [ 3 ]	UNITS [ 4 ]	OUTPUT [ 5 ]	OPTIONS [ 6 ]
	<b>MA</b> = G1/4 Male <b>MB</b> = G1/4 Female, no charge <b>MC</b> = G1/4 Male <b>MD</b> = G1/4 Female, no charge		542 to 1084 hPa 880 to 1084 hPa 948 to 1084 hPa	A A A	<b>5T</b> = 0 to 5 Vdc output \$705 all ranges <b>I</b> = 4 to 20 mA output \$725 all ranges	<b>OX</b> = Cleaned for oxygen service <b>OL</b> = Overload stops ( <b>)m</b> = optional cable length in meters <b>-MB</b> = Mounting bracket \$35
<p><b>0</b> = 3 m (10') cable (std) +\$15/m over 3 m (10')</p> <p><b>1</b> = PTIH-10-6P connector (or equal, no charge). Mating connector (sold separately), order <b>PT06F10-6S, \$26.50</b></p> <p><b>5</b> = Lightning-protected amplifier box (4 to 20 mA models only)</p> <p><b>6</b> = mini DIN connector</p>						
<p><b>To order a custom configuration:</b></p> <ol style="list-style-type: none"> <li>1. Select a pressure port</li> <li>2. Select electrical connection</li> <li>3. Select a pressure range</li> <li>4. Select pressure units</li> <li>5. Select output</li> <li>6. Select options and agency approvals</li> </ol>						

**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



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

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



Optional mounting bracket.

**MOST POPULAR MODELS HIGHLIGHTED!**

## STANDARD MODELS

### 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			
<b>0 TO 5 V OUTPUT</b>					
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
<b>4 TO 20 mA OUTPUT</b>					
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			
<b>0 TO 5 V OUTPUT</b>				
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
<b>4 TO 20 mA OUTPUT</b>				
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



#### UNITED STATES

[www.omega.com](http://www.omega.com)  
1-800-TC-OMEGA  
Stamford, CT.

#### CANADA

[www.omega.ca](http://www.omega.ca)  
Laval(Quebec)  
1-800-TC-OMEGA

#### GERMANY

[www.omega.de](http://www.omega.de)  
Deckenpfronn, Germany  
0800-8266342

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)  
Manchester, England  
0800-488-488

#### FRANCE

[www.omega.fr](http://www.omega.fr)  
Guyancourt, France  
088-466-342

#### CZECH REPUBLIC

[www.omegaeng.cz](http://www.omegaeng.cz)  
Karviná, Czech Republic  
596-311-899

#### BENELUX

[www.omega.nl](http://www.omega.nl)  
Amstelveen, NL  
0800-099-33-44



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