**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**

- **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**

**SPECIFICATIONS**

- **0 to 5 V Model**
  - **Input, Recommended:** 24 to 32 Vdc
  - **Output, 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%/ºC)
    - **Zero:** 0.005% FS/°F (0.009%/ºC)

- **4 to 20 mA Model**
  - **Input, Recommended:** 10 to 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%/ºC)
    - **Zero:** 0.005% FS/°F (0.009%/ºC)

**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)

**INPUTS AND OUTPUTS**

- **Input, Recommended:**
  - 24 to 32 Vdc
  - 10 to 40 Vdc

- **Output, FS:**
  - 0 to 5 Vdc
  - 4 to 20 mA

**WIRING**

<table>
<thead>
<tr>
<th>DIN Voltage</th>
<th>DIN Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 A +Sig Green</td>
<td>1 A +Red</td>
</tr>
<tr>
<td>3 B -Sig White</td>
<td>2 B -Black</td>
</tr>
<tr>
<td>GND C -Exc Black</td>
<td></td>
</tr>
<tr>
<td>1 D +Exc Red</td>
<td>E Shunt</td>
</tr>
<tr>
<td>F Shunt</td>
<td></td>
</tr>
</tbody>
</table>

**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.
### ELECTRONIC BAROMETER

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

**STANDARD CUSTOM CONFIGURATIONS**

<table>
<thead>
<tr>
<th>SERIES</th>
<th>PRESSURE PORT</th>
<th>ELECTRICAL CONNECTION</th>
<th>RANGE (inHg)</th>
<th>UNITS</th>
<th>OUTPUT</th>
<th>OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PX02</td>
<td>C = ¼-18 NPT-M</td>
<td>A</td>
<td>16 to 32</td>
<td>A</td>
<td>5T</td>
<td>OX =</td>
</tr>
<tr>
<td></td>
<td>D = ¼-18 NPT-F</td>
<td>A</td>
<td>26 to 32</td>
<td>A</td>
<td>I</td>
<td>OL =</td>
</tr>
<tr>
<td></td>
<td>J = ½-20 UNF-M</td>
<td>A</td>
<td>28 to 32</td>
<td>A</td>
<td></td>
<td>( )M =</td>
</tr>
<tr>
<td></td>
<td>K = ½-20 UNF-F</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td>-MB =</td>
</tr>
</tbody>
</table>

0 = 3 m (10') cable (std)
+ add cost/ft over 3 m (10')
1 = PTIH-10-6P connector (or equal)
Mating connector (sold separately), order PT06F10-6S.
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

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).

### METRIC CUSTOM CONFIGURATIONS

<table>
<thead>
<tr>
<th>SERIES</th>
<th>PRESSURE PORT</th>
<th>ELECTRICAL CONNECTION</th>
<th>RANGE (hPa)</th>
<th>UNITS</th>
<th>OUTPUT</th>
<th>OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PXM02</td>
<td>MA = G1⁄8 Male</td>
<td>A</td>
<td>542 to 1084</td>
<td>A</td>
<td>5T</td>
<td>OX =</td>
</tr>
<tr>
<td></td>
<td>MB = G1⁄8 Female</td>
<td>A</td>
<td>880 to 1084</td>
<td>A</td>
<td>I</td>
<td>OL =</td>
</tr>
<tr>
<td></td>
<td>MC = G1⁄4 Male</td>
<td>A</td>
<td>948 to 1084</td>
<td>A</td>
<td></td>
<td>( )M =</td>
</tr>
<tr>
<td></td>
<td>MD = G1⁄4 Female</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td>-MB =</td>
</tr>
</tbody>
</table>

0 = 3 m (10') cable (std)
+ add cost/m over 3 m (10')
1 = PTIH-10-6P connector (or equal)
Mating connector (sold separately), order PT06F10-6S.
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

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).

PXM02MC0-948A5T-MB, 948 to 1084 hPa calibrated electronic barometer with G1⁄4 male pressure port, 0 to 5 Vdc output and 3 m (10') cable.
STANDARD MODELS

To Order

MODELS WITH 7/16-20 UNF INTERNAL CONNECTION AND TWIST-LOCK CONNECTOR

<table>
<thead>
<tr>
<th>inHg</th>
<th>RANGE</th>
<th>mmHg</th>
<th>BAROMETER MODEL NO.</th>
<th>COMPATIBLE METERS*</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 TO 5 V OUTPUT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16 to 32</td>
<td>542 to 1084</td>
<td>406 to 813</td>
<td>PX02K1-16A5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>26 to 32</td>
<td>880 to 1084</td>
<td>660 to 813</td>
<td>PX02K1-26A5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>28 to 32</td>
<td>948 to 1084</td>
<td>711 to 813</td>
<td>PX02K1-28A5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>4 TO 20 mA OUTPUT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16 to 32</td>
<td>542 to 1084</td>
<td>406 to 813</td>
<td>PX02K1-16AI</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>26 to 32</td>
<td>880 to 1084</td>
<td>660 to 813</td>
<td>PX02K1-26AI</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>28 to 32</td>
<td>948 to 1084</td>
<td>711 to 813</td>
<td>PX02K1-28AI</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
</tbody>
</table>

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 7/16-20 UNF internal connection, 4 to 20 mA output, PTIH-10-6P connector, PT06F10-6S, mating connector (sold separately).
PXM02MD0-541MBARAI-MB, 28 to 32 inHg calibrated electronic barometer with 7/16-20 UNF internal connection, 0 to 5 Vdc output, PTIH10-6P connector and optional mounting bracket. PT06F10-6S, mating connector (sold separately).

METRIC MODELS

MODELS WITH G ¼ INTERNAL CONNECTION WITH CABLE OR CONNECTOR AND 5 V OUTPUT

<table>
<thead>
<tr>
<th>hPa</th>
<th>RANGE</th>
<th>BAROMETER MODEL NO.</th>
<th>COMPATIBLE METERS*</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 TO 5 V OUTPUT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>541-1084</td>
<td>406-813</td>
<td>PXM02MD0-541mBARA5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>880-1084</td>
<td>660-813</td>
<td>PXM02MD0-880mBARA5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>948-1084</td>
<td>711-813</td>
<td>PXM02MD0-948mBARA5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>4 TO 20 mA OUTPUT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>541-1084</td>
<td>406-813</td>
<td>PXM02MD0-541mBARAI</td>
<td>DP41-E, DP25B-E, DP24-E</td>
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<td>PXM02MD0-948mBARAI</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
</tbody>
</table>

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 G ¼ internal thread, 4 to 20 mA output, 3 m (10’) cable and the optional mounting bracket.
PXM02MD6-880mBARAST-MB, 880 to 1084 hPa calibrated electronic barometer with G ¼ internal connection, 0 to 5 Vdc output, mini-DIN connector and the optional mounting bracket. PT06F10-6S, mating connector (sold separately).

OPTION

<table>
<thead>
<tr>
<th>ORDER SUFFIX</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>-MB</td>
<td>Mounting Bracket</td>
</tr>
</tbody>
</table>