HIGH-ACCURACY ELECTRONIC BAROMETER STANDARD AND METRIC MODELS

O 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

STANDARD PX02K1-26A5T shown smaller than actual size.



Cable style.

PXM02MD0-541mBARA5T-MB

with optional mounting bracket.

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**

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



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 adi 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

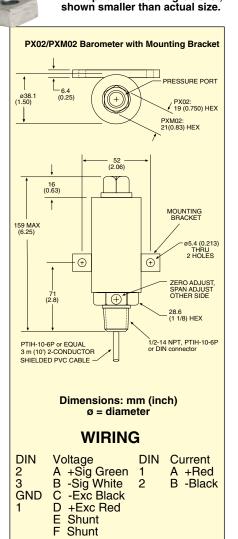
Pressure Port: See Custom

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)



ELECTRONIC BAROMETER

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



STANDARD CUSTOM CONFIGURATIONS

SERIES PRESSURE ELECTION PX02 PORT CONNE Barometer [1] [2]	CTION (inHg)	UNITS (OUTPUT [5]	OPTIONS [6]
C = 1/4-18 NPT-M D = 1/4-18 NPT-F	16 to 32 inHg 26 to 32 inHg	A 5T A	= 0 to 5 Vdc output	OX = Cleaned for oxygen service
J = 1/6-20 UNF-M K = 1/6-20 UNF-F	28 to 32 inHg	A I	= 4 to 20 mA output	OL = Overload stops ()M = Optional cable length in meters -MB = Mounting bracket + additional cost
0 = 3 m (10') cable + add cost/ft				+ additional cost
 1 = PTIH-10-6P co Mating connection (sold separate PT06F10-6S. 5 = Lightning-protetion amplifier box (4 to 20 mA meter) 6 = mini DIN connection 	etor ly), order ected odels only)		1. Select a pre	rical connection ssure range sure units ut

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

PXM02 PORT CONNE	TRICAL RANGE ECTION (hPa) 2] [3]	UNITS [4]	OUTPUT [5]	OPTIONS [6]
	over 3 m (10') connector (or equal) ctor ely), order ected nodels only)	A A A	1. Select a pre	rical connection ssure range sure units ut

Ordering Examples: PXM02MD1-880MBARAI-MB, 880 to 1084 hPa calibrated electronic barometer with $G^{1}/_{4}$ 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 $G^{1}/_{4}$ male pressure port, 0 to 5 Vdc output and 3 m (10') cable.



STANDARD MODELS

To Order				
MODELS WITH 1/10-20 UNF INTERNAL CONNECTION AND TWIST-LOCK CONNECTOR				
RANGE		BAROMETER		
inHg	hPa	mmHg	MODEL NO.	COMPATIBLE METERS*
0 TO 5 V OL	ITPUT			
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.

Ordering Examples: PX02K1-26AI, 26 to 32 inHg calibrated electronic barometer with %6-20 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 %6-20 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 ¼ INTERNAL CONNECTION WITH CABLE OR CONNECTOR AND 5 V OUTPUT				
RAN		BAROMETER	COMPATIBLE METERS*	
hPa	mmHg	MODEL NO.		
0 TO 5 V OUTPL	IT			
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 OUT	TPUT			
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.

To order different process connections, see custom configurations blow.

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
-МВ	Mounting Bracket

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