

# High Accuracy Electronic Barometer

Model PXM02MD1-541mA5T,  
Connector Style, see next page for  
Mating Connector

## PXM02 Series Electronic Barometer 0-5 Vdc or 4-20 mA Output 3 Ranges Available

406 to 813 mmHg/  
541-1080 mbar  
660 to 813 mmHg/  
880-1080 mbar  
711 to 813 mmHg/  
948-1080 mbar



- ✓ High Accuracy
- ✓ Broad Compensated Temperature  
-18 to 66°C
- ✓ FM Approved  
Intrinsically Safe
- ✓ All Stainless Steel  
Construction for Harsh  
Environments
- ✓ Cable or Connector  
Models
- ✓ Mounting Bracket Option
- ✓ Optional Pressure Ports  
to Fit Most Industrial  
Applications

OMEGA's PXM02 Electronic Barometer is a high accuracy, electronic barometer available in three ranges, 541 to 1080 mbar, 880 to 1080 mbar or 948 to 1080 mbar (absolute pressure) for laboratory or industrial test applications.

They have all stainless steel construction which make them ideally suitable for harsh industrial environments. Their high operating temperature, broad compensated range and excellent temperature compensation allow stable readings in applications with fluctuating temperatures commonly found where barometric pressure must be monitored.



PXM02  
**£570**  
Model Shown



PXM02MD0-541mA5T-MB,  
Cable Style, shown with  
optional mounting bracket

### MOST POPULAR MODELS HIGHLIGHTED

#### To Order (Specify Model Number)

Models with G 1/4 Internal Connection with Cable or Connector and 5V Output

Range mmHg	mbar	Barometer Model Number	Price	Compatible Meters**
<b>0-5 Volt Output</b>				
406-813	541-1080	PXM02MD[*]-541mA5T	£570	i-series™, DP25B-E, DP24-E
660-813	880-1080	PXM02MD[*]-880mA5T	570	i-series™, DP25B-E, DP24-E
711-813	948-1080	PXM02MD[*]-948mA5T	570	i-series™, DP25B-E, DP24-E
<b>4-20 mA Output</b>				
406-813	541-1080	PXM02MD[*]-541mA	570	i-series™, DP25B-E, DP24-E
660-813	880-1080	PXM02MD[*]-880mA	570	i-series™, DP25B-E, DP24-E
711-813	948-1080	PXM02MD[*]-948mA	570	i-series™, DP25B-E, DP24-E

#### Option

Mounting Bracket	-MB	£28.50	add as suffix
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[\*] = insert "0" for 0.6 m Cable or "6" for micro DIN connector

\*\*See Section S for compatible Meters

**Ordering Examples:** 1.) PXM02MD0-541mA-MB is a 541 to 1080 mbar calibrated electronic barometer with G 1/4 internal thread, 4-20 mA output, 3 m cable and the optional mounting bracket, £570 + 28.50 = **£598.50**.

2.) PXM02MD6-880mA5T-MB is an 880 to 1080 mbar calibrated electronic barometer with G 1/4 internal connection, 0-5 Vdc output, micro DIN connector and the optional mounting bracket, £570 + 28.50 = **£598.50**. Mating Connector included.



# Electronic Barometer with Voltage or Current Output

## SPECIFICATIONS:

### 0-5 V MODEL:

**Input, Recommended:** 24-32 Vdc

**Input, Maximum:** 32 Vdc

**Output, FS:** 0 to 5 Vdc

**Linearity:**  $\pm 0.15\%$  FS

**Hysteresis:**  $\pm 0.10\%$  FS

**Repeatability:**  $\pm 0.05\%$  FS

**Zero Balance:** 0  $\pm 10\%$  FS, adj

**Thermal Effects:** Span: 0.0054%

Rdg/ $^{\circ}$ C Zero: 0.0054% FS/ $^{\circ}$ C

### Agency Approvals:

FM Intrinsically safe

IS/I.II.III/1/CDEFG

### 4-20 mA MODEL:

**Input, Recommended:** 10-40 Vdc

**Input, Maximum:** 40 Vdc

**Output, FS:** 4-20 mA

**Accuracy:** 0.25% FS, Linearity, Hysteresis, and Repeatability Combined

**Zero Balance:** 4 mA,

+10% - 2% FS adj

**Thermal Effects:** Span: 0.008%

Rdg/ $^{\circ}$ C Zero: 0.009% FS/ $^{\circ}$ C

### Agency Approvals:

FM Intrinsically safe

IS/I.II.III/1/ABCDEF

## COMMON SPECIFICATIONS:

**Operational Temp Range:**

-47 to +121 $^{\circ}$ C (-50 to +250 $^{\circ}$ F)

**Compensated Temp Range:**

-18 to +66 $^{\circ}$ C (0 to +150 $^{\circ}$ F)

**Proof Pressure:**

150% of rated pressure

**Burst Pressure:**

300% of rated pressure

**Wetted Parts:** 17-4 PH Stainless Steel

**Pressure Port:** G 1/4 Internal std.

Optional: G 1/4 external,

G 1/8 Internal/external

**Electrical Connection:** 3 m (10 ft)

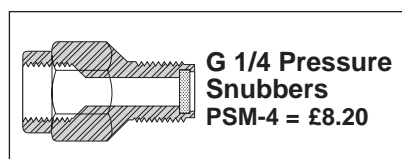
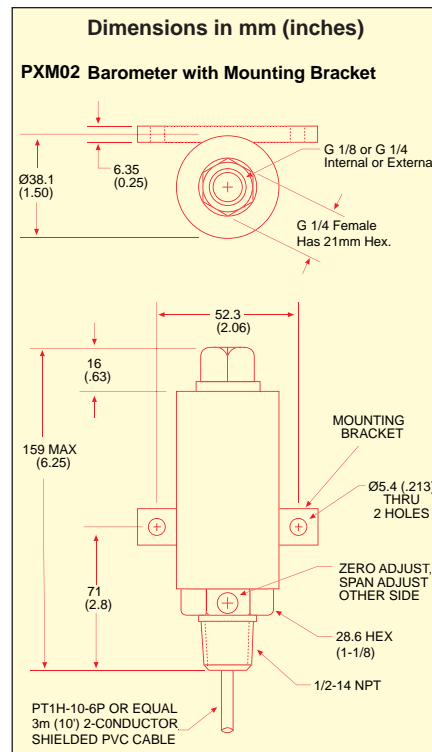
cable or microDIN connector standard – see Custom Configurations

**Mating Connector:**

Style 1: PT06F10-6S (not included)

Style 6: microDIN included

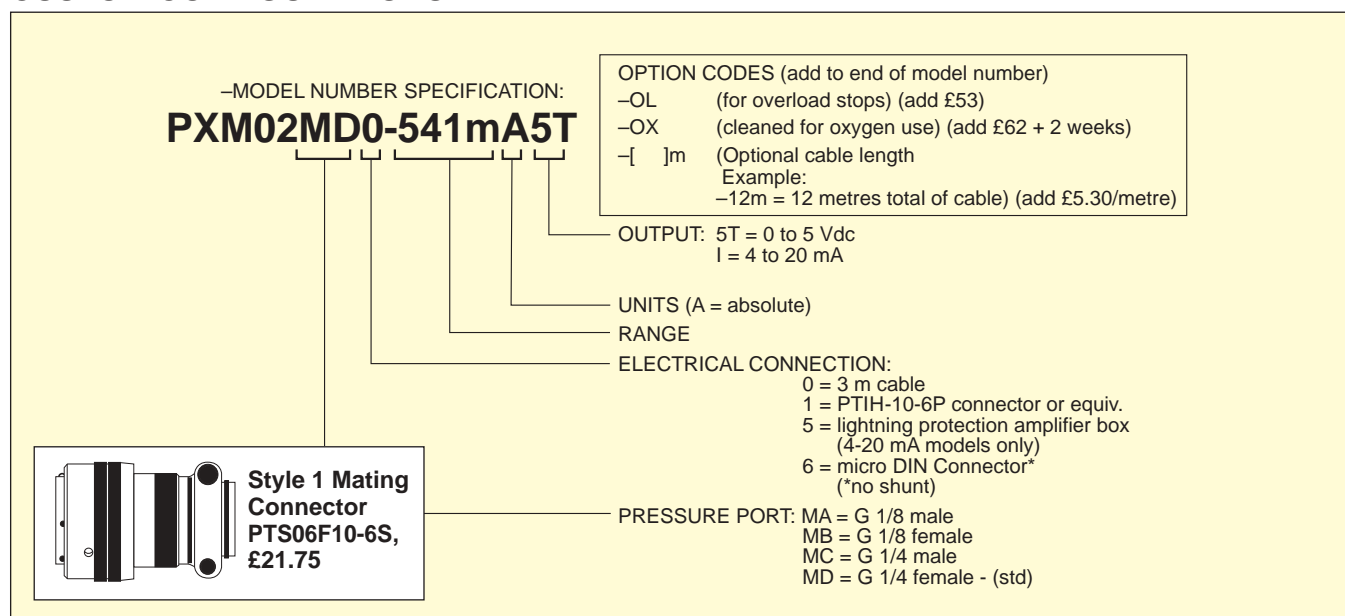
**Weight:** 170 g (6 oz)



## WIRING

DIN	Voltage PTIH	DIN	Current Connection
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		

## CUSTOM CONFIGURATIONS



**Ordering Examples:** 1.) PXM02MD1-541mA1-MB is a 541 to 1080 mbar calibrated electronic barometer with G 1/4 internal thread, 4-20mA output, a Bendix connector and the optional mounting bracket, £570 + 28.50 = **£598.50**. Mating Connector: (not included) PT06F10-6S, £21.75.

2.) PXM02MD0-880mA5T-MB is an 880 to 1080 mbar calibrated electronic barometer with G 1/4 internal connection, 0-5Vdc output, 3 m cable and the optional mounting bracket, £570 + 28.50 = **£598.50**.