MESOTECH INTERNATIONAL

Wide Temperature Range Advanced Analog Barometer

MT-BPA0003

The MT-BPA0003 barometric pressure transducer is designed for use in environmental applications that require excellent accuracy, fast dynamic response, and long-term stability and reliability.

This pressure sensor is ideally suited to the needs of automated weather stations and environmental monitoring applications. With a housing constructed of stainless steel and polyester, it can withstand environmental extremes.

The MT-BPA0003 utilizes Setra's Setraceram™ capacitive sensor and proprietary custom IC analog circuit. This fundamentally simple design and thermally stable glass fused ceramic sensing capsule is coupled with Setra's sophisticated capacitance charge-balance IC circuit, where accurate signal conditioning and environmental compensation is performed. The Setraceram sensor provides excellent thermal expansion coefficient and low mechanical hysteresis, which contributes to long-term stability and high accuracy.

Features:

- Environmentally rugged
- Operates in temps -40° to +60°C
- Compact (3.6 in x 2.4 in)
- Low power consumption
- Instant warm-up
- Fast response
- 9.5 - 28 VDC power input

Technical Specifications

Pressure range:	600 to 1100 hPa
Operating temp:	-40°C to +60°C (-40°F to +140°F)
Storage temp:	-60°C to +120°C (-76°F to +248°F)
Supply voltage:	9.5 - 28 VDC
Current consumption:	3mA operating mode 1µA sleep mode
Output:	0 to 5 VDC
Impedance:	<10 Ω
Noise:	<50 microvolts RMS
Resolution:	0.01 mb
Total accuracy:	2.0 hPa
Time constant:	<100 milliseconds
Max pressure:	2000 hPa
Pressure fitting:	⅛" barbed fitting
Dimensions:	3.6" x 2.4" x 1.0"
Weight:	4.8 oz (135 g)

Ordering Options

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