



Mesotech's Professional Digital Barometer is a highly accurate pressure transducer

with a digital output signal. This instrument measures atmospheric pressure to within  $\pm 0.3\%$  FS. It is ideal for automatic stations based on the MicroDCP or other data acquisition processor.

The Precision Barometer offers outstanding value in real-world conditions that demand accurate and stable barometric measurements. The barometer uses proven silicon sensor technology with microprocessor-based signal compensation, eliminating the need to insulate or temperature-regulate the barometer. It has a pressure range of 0 to 17.6 psia or 500 to 1200 hPa.

The barometer has a digital output of RS-232C, RS-485, or TTL level ASCII data suitable for direct input into any computer.

The sensor can operate from unregulated supply voltage in the range of 6 to 26 volts without affecting performance. Current consumption is 17 to 30 mA in measurement mode. For operation in remote locations under battery power, the sensor has instant warm-up and turn-on to full rated accuracy. This allows sampled operation at low average power consumption.

#### Features:

- $\pm 0.03\%$  or  $\pm 0.06\%$  full scale accuracy
- TTL power active and standby control
- Full range digital temperature compensation
- Full range linearization
- RS-232 and RS-485 outputs
- Extreme shock and vibration resistance
- Long-term stability
- Unaffected by orientation, density, acceleration

#### Technical Specifications

Pressure range:	0 to 17.6 psia or 500 to 1200 hPa
Total accuracy:	$\pm 0.3\%$ FS or $\pm 0.6\%$ FS max
Stability:	$\pm 0.25$ hPa per year
Operating temp:	-40°C to +85°C
Humidity:	Negligible sensitivity
Overpressure:	1400 hPa
Supply voltage:	6 to 26 volts
Pressure fitting:	Barbed fitting for $\frac{1}{8}$ inch I.D.
Size:	1.8" x 2.2" x 0.975" (4.57 cm x 5.59 cm x 2.48 cm)
Weight:	5 oz. (142 grams)
Connector:	6 pin
RS-232 interface:	1200 bps to 28800 bps, addressing up to 89 units

#### Ordering Options

Digital barometer with serial output,  
 $\pm 0.3\%$  FS max

Digital barometer with serial output,  
 $\pm 0.6\%$  FS max

**The MT-BPD0001 High Precision Professional Digital Barometer  
is an excellent choice for aviation use.**

