

# PTB276 Analog Barometer

## Precision Analog Barometer

The PTB276 analog barometer is a very accurate and small pressure transducer for an economical price. The sensor is ideal for automatic weather stations using solar or battery power.

The PTB276 is based on the Setraceram™ glass fused ceramic capacitive sensing capsule. The transducer has good thermal stability, low hysteresis, and a fundamentally simple design. The circuitry internal to the barometer compensates the sensing element to achieve long-term stability and high accuracy.

### Features:

- 0.25% FS accuracy, 0.1% FS optional
- Environmentally rugged
- 0.25%FS, 6 month stability
- Compact (2 inch dia. X 1 in)
- Low power consumption
- Instant warm-up
- Fast response
- 12 VDC power input



### Technical Specifications

Pressure range:	600 to 1100 hPa
	800 to 1100 hPa
Operating temp:	-20 to +79°C (0 to +175°F)
Storage temp:	-55 to +121°C (-65 to +250°F)
Supply voltage:	12 VDC
Power:	<0.2 watts
Output:	0.1 to 5.1 VDC
Impedance:	< 5 Ω
Noise:	< 200 microvolts RMS
Resolution:	0.005% FS
Total accuracy:	< ±0.25% FS, ±0.1% FS optional
Time constant:	< 10 milliseconds
Thermal effects:	< 1% zero and span
Max pressure:	30 psia
Pressure Fitting:	1/8 inch tube fitting
Dimensions:	57 mm dia x 27 mm (2.25 in x 1.03 in)

### Ordering Information

PTB276	Analog Barometer. Specify pressure range, electrical output, excitation, and accuracy. (0.25% FS accuracy)
PTB276-715	Analog Barometer. Specify pressure range, electrical output, excitation, and accuracy. (0.1% FS accuracy)