



Temperature Capabilities

This next generation, novel solution utilizes Millar's integrated pressure sensor to deliver simultaneous measurement of temperature, leveraging Millar's patented approach.

ASTM Clinical Thermometer Standard of Accuracy:

- $0^{\circ}\text{C} - 35.8^{\circ}\text{C} = \pm 0.3^{\circ}\text{C}$
- $35.8^{\circ}\text{C} - 35.9^{\circ}\text{C} = \pm 0.2^{\circ}\text{C}$
- $37.0^{\circ}\text{C} - 39.0^{\circ}\text{C} = \pm 0.1^{\circ}\text{C}$
- $39.1^{\circ}\text{C} - 41.0^{\circ}\text{C} = \pm 0.2^{\circ}\text{C}$
- $41.1^{\circ}\text{C} \text{ \& up} = \pm 0.2^{\circ}\text{C}$

Additive Temperature Measurement

The Problem

In many applications where high-fidelity pressure measurements is the primary user need, there is also interest in monitoring temperature at the same location. Accomplishing this typically requires the addition of a thermistor or optical fiber in addition to the pressure sensor.

For most complex catheters, sensor real estate and margin are both already at a premium. The addition of a second lumen dedicated to temperature measurement combined with the added costs means that temperature is often included in user requirements as a secondary or tertiary nice to have.

The Millar OEM Solution

Millar solves both the space and cost limitations by leveraging our patented approach to simultaneously measuring temperature while delivering the continuous, industry leading pressure signal that you expect when choosing to integrate a Millar sensor into your device.

Temperature Accuracy Within Clinical Expected Ranges

