

# Carbon Nanotube Temperature and Pressure Sensors

## Applications:

- Temperature Sensor
- Pressure Sensor

## Advantages:

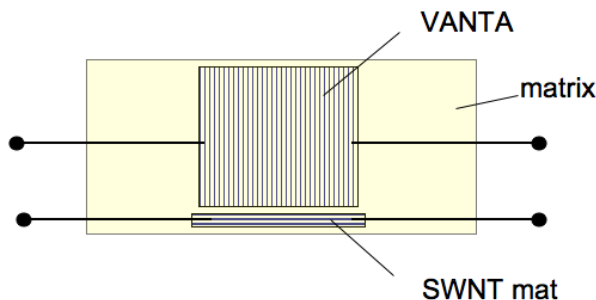
- Not subject to temperature reading variation due to pressure changes
- Not subject to pressure reading variation due to temperature changes

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## Pressure/Temperature sensor concept



A vertically-aligned nanotube array (VANTA) provides the pressure sensing while permitting high thermal transport to a buried single-wall nanotube (SWNT) mat temperature sensor.

## Summary:

### *Technology Description*

A device using nanotube mats, arrays, and their composites, that can independently read temperature and pressure.

### *Technology Application*

Precise measurements of temperature and pressure without variations due to inherent pressure or temperature fluctuations that can affect the reading. These measurements can then be transmitted wirelessly using RFID technology.

**Stage of Development:** Proof of Principle

**Patent Status:** Patent pending

**Licensing Status:** Available for licensing