

# 2010 Temperature Sensors

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Optoelectronics, Sensors, Discretes, MEMS Service



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## Abstract

Integrated circuit based temperature sensors hold several advantages over traditional sensors, such as low production costs and easy interface with other electronic components. Another benefit is that many IC temp sensors are directly compatible with popular computer buses such as the I2C, SPI, and SMBus (System-Management Bus). Also they do not have to go through the process of linearization that other temperature management devices do. IC-based sensors can output current or voltage, and some also incorporate voltage monitoring, remote diode sensing, or fan control functions.

IC-based sensors can be either digital or analog in nature, and while digital devices have gained share from older analog technology in many sectors, analog remains in high demand and will continue to gain share as they continue to displace discrete solutions. Analog temperature sensors also continue to find a home in applications that do not have need for a digitized output.

Databeans projects that total temperature sensors revenue will reach \$527 million in 2010. Meanwhile, the average selling prices for temperature sensors continue to erode slightly, which is increasing revenue, but also it also signals increasing competition in this space and higher volumes. High volume products include PCs, mobile phones, LCDs, and CE products. Others include power supplies, white goods, and HVAC.

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