

Sensor Solutions

—Silver Anniversary—
Freescale Semiconductor
SENSORS
25 Years



Overview

Over the past 25 years, Freescale Semiconductor's* Sensor Products Division has supplied the world with more than 650 million micro-electromechanical systems (MEMS)-based sensors. With Freescale's heritage of innovation, we are committed to expanding our sensor portfolio to support our customers' development of smarter and more efficient electronic solutions.

Consumer/Commercial

- > Appliance balancing and monitoring
- > Black boxes/event recorders
- > Smart portable electronics
- > Camcorder stability
- > Hard disk drive protection
- > Weather station
- > Anti-theft devices
- > Vacuum cleaners
- > Fall log
- > Fall detection
- > Tilt control
- > Vibration monitoring

Health Care Monitoring

- > Blood pressure (BP) monitor
- > Invasive BP monitor
- > Intrauterine BP monitor
- > Hospital bed controls
- > Respirators

- > Sleep apnea
- > Sports diagnostic systems
- > Dialysis equipment
- > Drug delivery for inhalers
- > Physical therapy

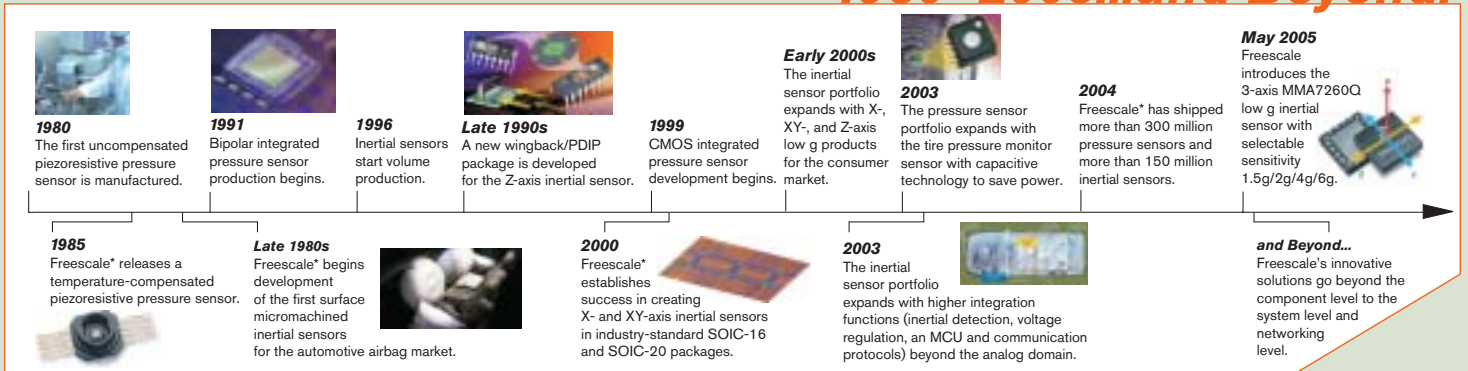
Industrial

- > Process control
- > Flow control and measurement
- > HVAC systems
- > Building airflow control
- > Factory automation
- > Boiler pressure indicators
- > Liquid level measurements
- > Seismic monitor
- > Smart motor maintenance
- > Robotics
- > Motion control

Automotive

- > Tire pressure monitoring
- > Fuel level sensing
- > Brake booster
- > Manifold absolute pressure
- > Barometric absolute pressure
- > Seat controls
- > Occupant detection and safety
- > Airflow indicators
- > Trailer brake controls
- > Vehicle navigation
- > Backup GPS

1980–2005...and Beyond.



Freescale's Sensor Legacy

We have a successful 25-year history delivering on the promise of new sensor technology. Since the 1980s, when the first uncompensated piezoresistive pressure sensor was introduced, we have been developing new ways for people to monitor the world around them.

In the arena of pressure sensors, we continued to expand the level of integration from uncompensated into compensated, integrated and medical-grade technologies. By the late 1980s, we began development of the first surface micromachined inertial sensors for the automotive airbag market. Since 1996, when inertial sensors went into volume production, airbags have become a widely accepted standard for vehicles worldwide.

A Heritage of Innovation

Since the early 2000s we have committed to expanding our sensor portfolio to broader markets using the stringent expertise and high-volume manufacturing gained from the automotive market. MEMS-based sensors support our customers' development of smarter and more efficient electronic solutions in non-automotive markets.

With designers facing new challenges to create "smarter" products, our sensors are dedicated to meeting the needs of this constantly evolving and expanding market.

Celebrating 25 Years in 2005

Over the past 25 years, we have supplied the world with more than 450 million MEMS-based sensors. Our sensors leverage complementary technologies from the corporation to strengthen your global competitiveness in the expanding marketplace.

Learn More: For more information about Freescale products, please visit www.freescale.com/sensors.

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