

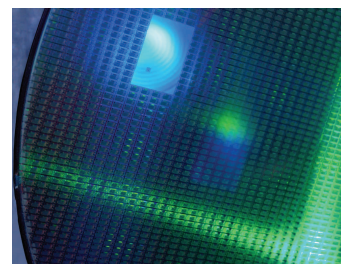
Press Release: Product Announcement

September 2007, Sensirion AG, 8712 Stäfa, Switzerland

Liquid Flow Monitoring for Drug Delivery

The MEMS sensor company Sensirion AG presents a 4th-generation CMOS-based microsensor chip for liquid drug flow monitoring in portable systems, implantables or disposable drug delivery solutions. The semiconductor chip opens up new product design opportunities for drug delivery systems. Very small amounts of liquid can now be monitored which allows to add supplementary electronic monitoring and control features to drug delivery systems.

The fully digital microchip is merging a flow sensor element with memory for calibration data as well as digital intelligence for linearization and temperature compensation on one single MEMS sensor chip (size 2 x 3.5 mm). The thermal sensor works fully non invasive, since the MEMS chip can be bonded on the outside of a capillary and sense through the wall of this channel (bonding not releasable, US Pat. 6813944). Such sensors enable bubble detection and accurate measurement of very low liquid flow rates down to micro- and nanoliters per minute with very short response times and outstanding repeatability. As the tiny chips are based on CMOS technology, they can easily be produced in high volumes at low cost in standard semiconductor wafer fabs.



Wafer with microsensor chips

About Sensirion

Sensirion AG is a rapidly growing high-tech sensor enterprise with headquarters in Staefa near Zurich. The company is a leading international supplier of CMOS-based sensor components and systems. Its range of high-quality products includes humidity and temperature sensors, flow meters and flow controllers for gases and liquids, and differential pressure sensors. Sensirion supports its international OEM customers with tailored sensor system solutions for a wide variety of applications. Among others, they include gas flow regulators, building automation modules, and applications in the medical technology and consumer goods sectors. Sensirion products are distinguished by their use of patented CMOSens[®] technology. This enables customers to profit from intelligent system integration, including calibration and digital interfaces. This allows considerable cost savings to be achieved thanks to ease of use and modularity.

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