

# Sensirion launches a new flow sensor for fuel cell

In July Micronews will issue a special edition about MEMS and Nanotechnology in Switzerland, but you can already get the confirmation that Swiss companies do not produce only watches

**S**ensirion, a Swiss based pressure sensor, flow meter and humidity company using the MEMS CMOS process, has released a new flow sensor dedicated to the measurement of methanol flow for fuel cell applications (and also life science applications). The same MEMS sensor chip integrates the sensor device, the memory, the linearization and temperature compensation.

The company uses the fourth generation of its technology,

enabling the manufacturing of MEMS devices on a CMOS process and the integration of MEMS device with analog and digital circuits.

Sensirion is using a CMOS foundry (not disclosed) to manufacture its device and is a successful MEMS fabless company. Figure 6 presents Sensirion product.

This new product is a sign that all the pieces to manufacture small fuel cells are now in place for a product introduction within

few months. We expect a product introduction end of 2007 or beginning of 2008 (certainly

in Japan) with slow growth the first 2 years. Market adoption will take time.

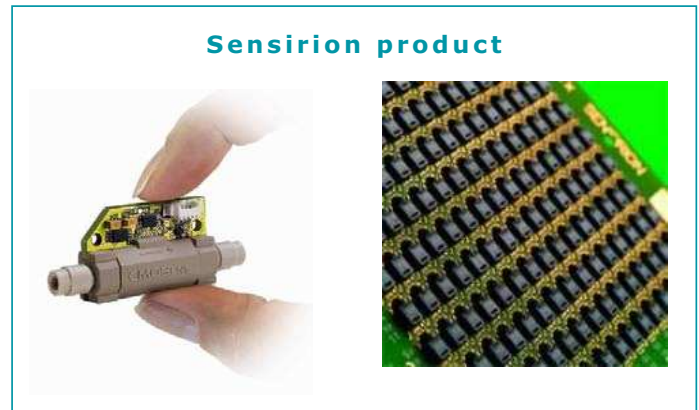


Figure 7: Source Sensirion

# New product at Dicon

from p.5

According to DiCon, the tunable filters operate in either the C or L bands and are particularly useful in applications such as ASE noise suppression, wavelength selection, signal tracking, and optical performance monitoring. Moreover, the company confirms that these MEMS tunable filters will form the basis for its Optical Channel Performance Monitor (OCPM) modules, and they can also be integrated into its general purpose test & measurement platform for test automation applications.

The MEMS devices are manufactured in Dicon's in-house MEMS wafer fab.

So optical MEMS applications are still alive and kicking. At YOLE Développement, we expect the optical MEMS markets for telecommunication (outside the projection applications and MEMS displays, dominated by Texas Instruments) will grow from M\$127 in 2006 to M\$215 in 2010. The following table presents the market growth estimated by YOLE Développement (extracted from our report

"Light Engine", to be released within 2 weeks).

These telecom optical MEMS applications are dominated by

VOAs and small size optical cross connects (less than 4x4) which represent more than 80% of the total market.



Figure 8: Source Dicon