



## Press release

Neuchatel, Switzerland, 30 May, 2011

### **Colibrys Seismic sensors for Condition monitoring, Earthquake mapping and Tsunami warning**

Colibrys (Switzerland) Ltd, Neuchatel Switzerland announced today the release of the SF2006, their latest generation of MEMS based Seismic sensors. These sensors are the only MEMS based accelerometers qualified today by the USGS (US Geological Survey). The sensors are used for multiple applications including Tsunami warning systems, Structural Condition Monitoring (CM) of large buildings, dams, nuclear plants etc, and also seismic pre-mapping and seismic intensity measurements.

The SF2006 features very low noise performance ( $900 \text{ ng}_{\text{rms}}/\sqrt{\text{Hz}}$ ), high dynamic range, high linearity ( $<1\%$ ) operating across a  $\pm 5g$  full scale range, making it ideal for geo-scientific seismic studies, seismic mapping and structural monitoring applications where high resolution ( $>18$  bit) seismic signals need to be analysed. This new product is used in earthquake and seismology measurements as well as in the comparative analysis of structures before, during and after an earthquake, assessing structural integrity and advice if buildings are still fit to re-enter post earthquake. Given the apparent recent increase in earthquake activity worldwide such as that seen in Indonesia, Italy, Haiti, Chile, New Zealand, Spain and Japan and the heightened governmental and public awareness of the devastating consequences of such events, the need to invest in the above applications by governments and insurance companies is expected to rise significantly in the coming years.

#### **About Colibrys**

COLIBRYS is a world-leading supplier of standard and semi-custom MEMS based motion sensors to the harsh-environments (Military, Aerospace and Energy) and safety critical (Industrial and Instrumentation) applications. COLIBRYS family of motion sensors includes extremely low noise and shock resistant seismic sensors, high stability high shock inertial accelerometers and DC coupled capacitive shock and vibration sensors. COLIBRYS is based in Neuchâtel, Switzerland. Additional information is available at [www.colibrys.com](http://www.colibrys.com)

This year Colibrys is celebrating its 10 year Anniversary. The company was created in 2001 as a spin-off from the Swiss Center of Electronics and Microelectronics (CSEM) having been active for some 30 years in the research, development and manufacturing of silicon based Microelectro-mechanical (MEMS) micro-systems. All operational activities from product design through to manufacture are based within the one site in Neuchâtel Switzerland.

#### **About MEMS Technology**

MEMS (**M**icro-**E**lectrical-**M**echanical **S**ystems) are highly miniaturized devices that integrate a number of functions including fluidics, optics, mechanics and electronics on a single silicon chip using techniques similar to traditional integrated circuit process technology. MEMS merge sensing, actuating, and computing into miniature systems that enable enhanced levels of perception, control and performance.

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