

## Press Release

### IR Microsystems presents compact, sub-ppm NH<sub>3</sub> laser diode gas detector

Lausanne, Switzerland, February 1<sup>st</sup>, 2008

Lausanne/Switzerland based IR Microsystems, a leader in compact, tunable laser diode based gas sensors for monitoring, safety and process control, presents an innovative sub-ppm ammonia gas detector. The drift-free detector shows an excellent RMS noise of only 0.15 ppm, with perfect linearity up to 1000 ppm. The sensors are targeted toward applications in industrial safety, refrigeration, emission control, life-stock farming and agriculture.



“The ammonia sensor performance combined with its long lifetime is unmatched in this class of instruments and especially out-plays traditional electrochemical cell sensors” says IR Microsystems’ CTO, Dr. Bert Willing.

The “microLGD” gas sensors are offered as stand-alone systems or OEM sub-mounts for the continuous monitoring of NH<sub>3</sub> and other gases like O<sub>2</sub>, CO<sub>2</sub>, CH<sub>4</sub>, H<sub>2</sub>O, etc. Compared to current gas sensor technologies, IR Microsystems’ “Next Generation Gas Detection” products feature exceptional advantages like extremely high selectivity, calibration-free operation, low-cost-of-ownership, and functional safety.

The patented measurement principle is based on Tunable Diode Laser Spectrometry (TDLS) and results in unique products without a reference channel, allowing for simpler, lower-cost systems. The sensor comprises a microprocessor-driven read-out module with digital and analog data outputs for industry-standard connectivity (I<sup>2</sup>C-bus, RS485, RS232, or 4-20 mA). The unit is built ready-to-use for rapid OEM integration into stand-alone units, detector networks or explosion-proof housings.



With its extremely high selectivity, functional safety, calibration-free operation, very good long-term stability, long lifetime, and scalability of cost, this breakthrough technology is set to change the gas detection landscape.

IR Microsystems will present its products at the following tradeshows:

**PITTCON 2008**, New Orleans, USA, March 3<sup>rd</sup>– 6<sup>th</sup>, 2008, Booth 6842,  
[www.pittcon.org](http://www.pittcon.org)

**Hannover Messe 2008**, Hannover, Germany, April 21<sup>st</sup> – 25<sup>th</sup>, 2008, Booth F16, Hall 6,  
[www.hannovermesse.de](http://www.hannovermesse.de)

**Sensor + Test 2008**, Nürnberg, Germany, May 6<sup>th</sup>-8<sup>th</sup>, 2008, Booth 7-310,  
[www.sensor-test.de](http://www.sensor-test.de)

Please visit us at one of the above tradeshows or contact us directly at:

IR Microsystems SA  
Rue Daniel Colladon, PSE-C  
1015 Lausanne, Switzerland  
Tel. +41-21-693 8528, or 8530  
microLGD@ir-microsystems.com, [www.ir-microsystems.com](http://www.ir-microsystems.com)