

Press Release

IR Microsystems presents gas sensors based on laser diodes

COMPAMED 2007, Düsseldorf, Germany – November 14th-16th, 2007

Lausanne/Switzerland based *IR Microsystems*, subsidiary of *Leister Process Technologies*, presents a range of compact gas sensors based on telecom-type tunable laser diodes. The innovative sensors are targeted toward applications in medical technology, industrial safety, selected process control, and others. Our products offer exceptional advantages compared to current gas sensor technologies, notably in terms of fast response time, functional safety, selectivity and low cost-of-ownership.



The microLGD gas sensors are offered to OEM customers as stand-alone systems or sub-mounts for the continuous monitoring of gases like, O₂, CO₂, H₂O, NH₃, and others.

IR Microsystems' patented measurement principle is based on *Tunable Diode Laser Spectrometry* (TDLS) and uses a novel, reference channel-free measurement concept, allowing for simpler, compact systems. The sensor comprises a laser diode measurement head and a microprocessor-driven read-out module with digital and analog data outputs for industry-standard connectivity (4-20 mA, RS485, RS232).

Applications in medical technology using fast mainstream monitoring of O₂, CO₂ and water may include:

- Pulmonary diagnostics
- Metabolic diagnostics, total parenteral nutrition (TPN) optimization for cost-reduction in critical care
- Ergo-Spirometry
- others

For more information, please visit us at our booth **F29/8, Hall 8A**.
LEISTER Process Technologies / IR Microsystems

Or contact us at:

IR Microsystems
PSE-C
1015 Lausanne, Switzerland
Tel. +41-21-693 8528
info@ir-microsystems.com , www.ir-microsystems.com