

## Press Release

Unitronic\_032016\_Mipex\_01

Highly efficient, extremely compact and easy to integrate:

### Innovative Ultra Low Power NDIR-sensors revolutionize the measurement of methane, carbon dioxide and hydrocarbons

Düsseldorf, 02 May 2016 – A complete series of innovative Ultra Low Power NDIR-sensors for the reliable measurement of small concentrations of methane (CH<sub>4</sub>), carbon dioxide (CO<sub>2</sub>) and hydrocarbons (HC) is presented by Unitronic at SENSOR+TEST 2016 in hall 1, booth 559. The sensors possess a power consumption below 3.5 mW, which is 50 times less than conventional gas sensors based on semiconductor or thermocatalytic technologies.

The so far unique gas sensors developed by Mipex Technology utilize light emitters and photo detectors based on A2B4-A2B6 solid state alloys which guarantee high efficiency concerning the detection of hydrocarbons and carbon dioxide. New standards are achieved by Mipex due to the combination of an LED with optimized spectrum, a signal processing algorithm, an optical chamber, a specially designed photo diode and an embedded temperature sensor including electronic components to process signals in the smallest of spaces. Different measuring ranges are offered depending on your needs: from 0 up to 100 % LEL or even up to 100 Vol% for methane. The communication with the electronics is provided via UART interface. Additionally an analogue exit is available.

Another unique feature of the Mipex IR gas sensors is the explosion protection according to the Ex ia I U / Ex ia IIC U. Gas sensors of the MIPEX-02 and MIPEX-03 series don't require the additional use of sinter metal as explosion-proof protection. They are 'Ex' certified under ATEX, IECEx and ETL and thus satisfy the highest industrial safety requirements. MIPEX alarm sensors are also available without explosion protection for the residential environment.

The sensors are offered in a standard size of 16.6 x 20 mm with metal or plastic housings, with a special version disposing of lateral openings available in order to reduce the reaction times to < 10 s.

The advanced Low Power design of the unique miniature IR gas sensors makes them ideal for solar or battery powered wireless applications. Detailed information can be obtained from [info@unitronic.de](mailto:info@unitronic.de).

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### **Unitronic GmbH**

*Unitronic GmbH, founded in 1969, is a member since 2002 of the Swedish holding Lagercrantz Group AB. The company has set itself a goal to support customers in German speaking regions with competent design-in and after sales support and actively help customers in the selection and implementation of the latest technologies available. Unitronic has franchise agreements with more than 30 leading manufacturers in the sectors of semiconductors, sensors, displays and modules for telematics, telemetry, navigation and connectivity. This broad range of products guarantees the best selection of suitable products for the respective customer's application. 23 employees in four sales offices throughout Germany provide customer proximity. Additional information can be found at: [www.unitronic.de](http://www.unitronic.de).*

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