

Press Release

Dresden, 25/03/2015

New Detectors in Single-Supply Operation with High Sensitivity Pyroelectric Detector LMM-274 and LIM-272 for Gas Analysis now available

The InfraTec GmbH Infrarotsensorik und Messtechnik company from Dresden has over 20 years of experience in manufacturing pyroelectric infrared detectors. Since 2014 new detectors LMM-274 and LIM-272 complete the product line with integrated CMOS preamplifier technology. In contrast to conventional equipment, the detectors with JFET source tracking capabilities can operate in current mode and provide, for example, great advantages regarding the time response behaviour. Due to the very high signal voltage – up to several 100 mV – they can easily be coupled with a microcontroller.

The power consumption of these two single-supply detectors is about ten times lower than of our standard detectors: 80 µW for the LIM-272 and 160 µW for the LMM-274 at 2.7 V. Therefore, they are ideal for battery powered portable analyzers. The thermal compensation of these detectors ensures stable operation even under severe temperature fluctuations.

The LIM-272 comes with two channels so that you can use a measurement channel and a reference channel and can be used to identify alcohol or chlorinated hydrocarbons, for example.

With the LMM-274, InfraTec now offers a low-power detector with four channels, so that three gases can be measured simultaneously and a reference channel is also available.

Informationen: 1.430 characters (incl. spaces)

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