

Moisture Verification with NDIR Measurement Devices

New Filters for Pyroelectric Detectors

Pyroelectric detectors are used in gas analysis. Each gas can be detected using a very specific wavelength – the so-called absorption wavelength.

Moisture is often tested at the wavelengths 1.94 μm and 2.9 μm ; however, in this case, the absorption wavelengths of CO_2 overlap the signal: with these wavelengths, the moisture of the gas mixtures can actually only be determined using complex measurement equipment. With the right filters and a suitable light source it is also possible to achieve a reliable measurement with simple NDIR measurement devices.

LASER COMPONENTS brings three new filters on the market that are selected in such a way as to significantly reduce the crosstalk to other gases to achieve uncomplicated measurements with NDIR measurement devices.

For the measurement of methane (CH_4): $\lambda_{\text{CWL}} = 7.91 \mu\text{m} \pm 160 \text{ nm}$

For the measurement of alcohol mixtures: $\lambda_{\text{CWL}} = 9.50 \mu\text{m} \pm 450 \text{ nm}$

For the measurement of moisture (water vapor): $\lambda_{\text{CWL}} = 5.78 \mu\text{m} \pm 180 \text{ nm}$

More Information

www.lasercomponents.com/de-en/news/new-filters-for-pyroelectric-detectors/

Trade Shows

analytica, May 10-13, 2016, Messe München, **Booth A2.500**

Sensor + Test, May 10-12, 2016, Messe Nürnberg, **Hall 1, Booth 256**

LaSys, May 31-June 02, 2016, Messe Stuttgart, **Booth 4A16**

AngaCom, June 07-09, 2016, Messe Köln, **Hall 10.2, Booth J35**

Optatec, June 07-09, 2016, Messezentrum Frankfurt/Main, **Hall 3, Booth E01**

Photonex Scotland Roadshow, June 08, 2016, Heriot-Watt University UK, **Booth S22**

Sensors Expo & Conference, June 22-23, 2016, San Jose USA, **Booth 1240**

Automatica, June 21-24, 2016, Messe München, **Booth B5.503**

Photon16, September 06-07, 2016, University of Leeds UK, **Booth 5**

ECOC 2016, September 19-21, 2016, Düsseldorf, **Booth 102**

Photonex Coventry 2016, October 1-13, 2016, Ricoh Arena UK, **Booth D15**

VISION 2016, November 08-10, 2016, Messe Stuttgart, **Booth 1C33**

Electronica 2016, November 08-11, 2016, Messe München,

The Company

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