

**Principal Office**

PAS-Tech Gasanalytik GmbH  
Albert-Schweitzer-Ring 14  
D-22045 Hamburg  
Germany  
Phone: (+)49 - 40 66 85 33 00  
Fax: (+)49 - 40 66 85 33 96  
E-Mail: [info@pas-tech.de](mailto:info@pas-tech.de)  
Web: [www.pas-tech.de](http://www.pas-tech.de)

**Contact Person**

Dr. Christian WETZEL  
Sales & Marketing  
Phone: (+)49 - 40 66 85 33 00  
Fax: (+)49 - 40 66 85 33 96  
E-Mail: [wetzel@pas-tech.de](mailto:wetzel@pas-tech.de)

PAS-Tech GmbH was founded in 2002 as innovative high-tech-company and was nominated the same year for the "Hamburger Gründerpreis" (Hamburg foundation award).

The company develops and sells cost efficient and compact gas sensors based on the photoacoustic effect. In the photoacoustic effect light absorbed by a molecule is converted into a sound wave carrying information about the kind and concentration of molecules in the sample. PAS-Tech GmbH is the only manufacturer of gas sensors combining the extremely powerful photoacoustic method with distributed feedback (DFB) diode lasers.

Thanks to their sensitivity and selectivity the PAS-Tech gas sensors are particularly well suited for detecting trace elements. The linearity of the photoacoustic signal offers several decisive advantages:

- offset free measurement: easy calibration
- wide dynamic range of concentration measurement: from ppb to %
- small measurement cells and compact sensors
- very low detection sensitivities
- no cross sensitivities

A range of gases can be quantitatively detected based on the modular concept of the gas sensor. The gas sensors are offered either as complete ready-to-use table top devices or as OEM modules to be integrated in complex equipment. Both devices combine sensitive and selective gas analysis with user friendly handling of the sensors.

Apart from the gas sensor modules a sophisticated range of diode laser and measurement equipment is offered, like e.g. diode laser modules, diode laser controller, laser collimators, dsp-based lock-in amplifiers and the MolExplorer<sup>TM</sup>, a new PC-Programm for the easy calculation and display of molecular spectra based on the HITRAN or GEISA database.