



Innovation und Kompetenz in keramischer Sensorik

UST Umweltsensortechnik GmbH, established in 1991, is a successful medium sized enterprise, recognised internationally as a leading company for development and production of ceramic sensor technology, successfully acting in the global market. The leading position of the company is based on the market-driven development and production of innovative ceramic sensor elements for gas and temperature measurement, together with innovative measuring instruments for gas detection.

Innovative manufacturing technologies and facilities enable the continuous and traceable production of custom-designed sensors and instruments with highest quality and reliability in small as well as large production runs.

The annual output amounts several million gas sensors and temperature sensors as well as several thousand gas detection devices. The products are sold to more than 1200 customers worldwide.

The main fields of application of the products are industrial process measurement, automotive electronics, building automation, energy engineering, environmental technology, safety engineering and medical engineering.

Sensors of UST Umweltsensortechnik GmbH are used by our customers for example in car flap control systems, temperature and exhaust gas control systems, systems for the detection of smouldering fire in lignite power plants and subways, air quality measurement systems as well as high and low temperature applications in industrial manufacturing processes.

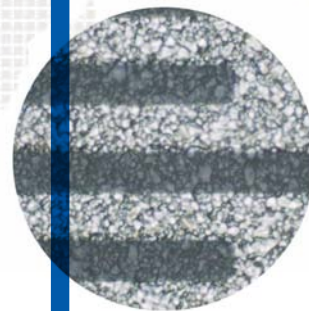
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UST Umweltsensortechnik GmbH is certified according to



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Subject to alterations for this information and technological changes



temperature sensors



gas sensors



equipment / modules

Made in Germany



Teil gut

Innovation and competence in ceramic sensor technology

Gas sensors

MOS gas sensor elements and arrays for the detection of CO, H₂, C₂H₅OH, CH₄, NO₂, NH₃, O₃, hydrocarbons (C_xH_y ... from C₁ to C₈), refrigerants, VOC's a. o. (depending on the gas from some ppb up to the Vol%-Range)

UST Triplesensor®, an active gas sensor module used as technological platform for the development and realization of customized gas measurement and detection systems for various gases and gas mixtures (selected VOC-markers, CH₄ a. o.)

H₂-Semicon®-Sensor-System, an active diversified-redundant gas sensor system for the highly selective measurement of Hydrogen concentrations from 0 up to 40.000 ppm (optional 100%) in particular for applications in safety engineering

Temperature sensors

Platinum temperature sensor elements (Pt 10 ... Pt 10000) for operating temperatures from -200°C up to +1000°C; according to DIN EN 60751

Advanced thin-film-technology: ceramic carrier with a structured platinum layer, covered with a passivating layer

Various designs and dimensions, e.g. 1,25x1,6; 0,8x5; 2x2,3; 2x5; 3x4; 2x10 (Length x Width / mm)

Connecting leads according to application temperature (AgPd5; Pt; NiPt; Ni; NiAu; AuPd5)

Special designs on customer request

Custom designed semi-finished temperature probes

Operating temperature range from -100°C up to +1000°C

2-, 3-, 4-wire versions with various cable materials and lengths

Application specific protective casings

Equipment / modules

Portable gas leak detectors for the quick and selective detection of different types of gas (H₂, CO₂, CH₄, refrigerants a. o.)

Pre-calibrated sensor modules for the stationary application to detect concentrations of combustible gases in the range of a few ppm up to the LEL

VOC-/CH₄-Evaluation Kit for the monitoring of Methane concentrations and the air quality (measurement/detection of selected VOC markers)

