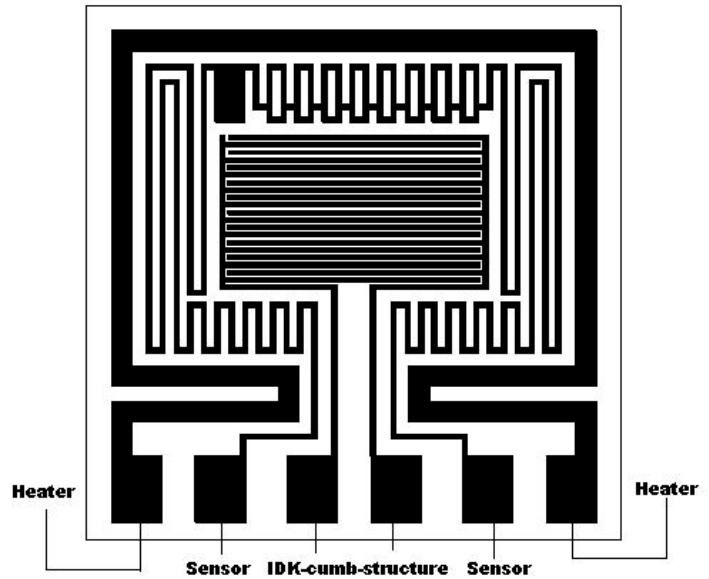
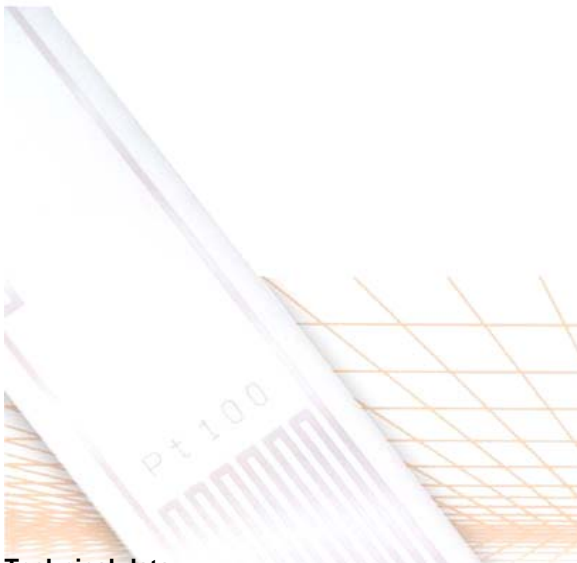


The Multi-Sensor Platform is a multi-talented device. By applying a sensitive layer on the surface, it can be customized for a great variety of applications. The sensitive layers which convert the Multi-Sensor Platform into a gas sensor consist of metals or metal oxides such as silicon, tin oxide or gallium oxide. This ensures that oxygen, carbon monoxide, nitrogen oxide or methane are detected in the ppm range.

Biological material is likewise suitable as a sensitive layer. In this case, the Multi-Sensor Platform is transformed into a bio-sensor, which measures the metabolism of induced ion currents in grown cell structures. Valuable information for defeating various diseases can be obtained by using this technique.

### Application

Typical areas of application for the sensor platform are any type of gas sensors and physical sensors such as humidity and air quality sensors.



### Technical data

<b>Structure</b>	Heraeus Sensor Technology is able to design the Multi-Sensor Platform with customer-specific sensor layers, heater layers and interdigitated electrode structures (IDES) in mono and multilayer versions. User-defined combinations of these three layers are possible. The heater is covered with an insulating glass layer.
<b>Applying layers</b>	You are able to apply sensitive-layers on the non-passivated IDK-Pt-structure by using screen process or drop-coating.
<b>Connection</b>	Au- or Pt-thickfilmpad for bonding and welding, leads on request.
<b>IDK-structure</b>	width of conductor / length of conductor: customer-specific, each from 15 µm to 0.2 mm.
<b>Temperature range</b>	-70°C to +500°C (on customer demand higher temperatures possible).
<b>Nominal resistance</b>	Heater: customer-specific, from 6,8 Ω to 50 Ω.
<b>Tolerance</b>	Class B according to DIN EN 60 751.
<b>Stability</b>	Passed 1000 h test at T=500°C
<b>Note</b>	Dimensions vary, depending on customer-specific design. Other tolerances, values of resistance and leads are available on request.

### Status objective

We reserve the right to make alterations and technical data printed. All technical data serves as a guideline and does not guarantee particular properties to any products.

## Heraeus Sensor Technology USA

1901 Route 130  
 North Brunswick, NJ 08902  
 Phone 732-940-4400 Fax 732-940-4445  
 Email info.hst-us@heraeus.com  
 www.hst-us.com