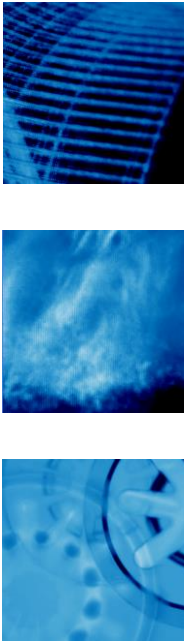


## Technical data

<b>Gas sensor</b>	<b>GG5:</b>	Single gas sensor element	
<b>Type of sensor / gas sensitive layer</b>	<b>2:</b>	Sensor with a gas sensitive metal-oxide semi-conductive layer: high sensitivity to CO, H <sub>2</sub> and C <sub>2</sub> H <sub>5</sub> OH and a low cross sensitivity to CH <sub>4</sub>	
<b>Chip</b>	<b>5:</b>	Size = (1.5 x 1.5) mm <sup>2</sup>	
<b>Heater resistance at 0 °C</b>	<b>3:</b>	R <sub>H0</sub> = (10.0 ± 0.5) Ω	
<b>Class of accuracy</b>	<b>0:</b>	R <sub>S0</sub> = ± 75 %, R <sub>S</sub> /R <sub>S0</sub> = ± 30 %	
<b>Housing</b>	<b>T:</b>	Sensor in a TO39-housing with a stainless steel cap (T) with stainless steel mesh (standard version)	
<b>Dimensions</b>			
<b>Pin assignment</b>	Pin 1, 4 ... Heater; Pin 2, 3 ... Sensitive layer		
<b>Operating parameters</b>	Heater Temperature T <sub>H</sub> = (350 ± 15) °C Heater resistance R <sub>H</sub> = (23.0 ± 1.1) Ω Power rate P <sub>H</sub> ≈ 330 mW (Heater voltage U <sub>Hstat</sub> = 2.7 V)		
<b>Sensor parameters</b>	Basic resistance R <sub>S0</sub> = (200 ± 150) kΩ		
<b>Measurement voltage</b>	U <sub>S</sub> < 250 mV		
<b>Permitted/possible case temperature during operation</b>	TO39 housing 2T/T: up to 150°C (short time)		
<b>Allowable storage and transportation temperature</b>	-25 °C ... +70 °C		
<b>Allowable storage and transportation humidity</b>	20 % ... 80 % relative humidity		
<b>Allowable storage conditions</b>	Storage environment free of any contaminations, particularly protected against chemical substances, such as Silicone etc.		
<b>Net weight</b>	ca. 0.35 g		
<b>Conformity</b>	2011/65/EU: Restriction of the use of Hazardous Substances Directive (RoHS)		

*R<sub>S</sub>... resistance sensitive layer, R<sub>H</sub>... heater resistance*



## Technical data

### Typical sensor characteristics to selected test gases

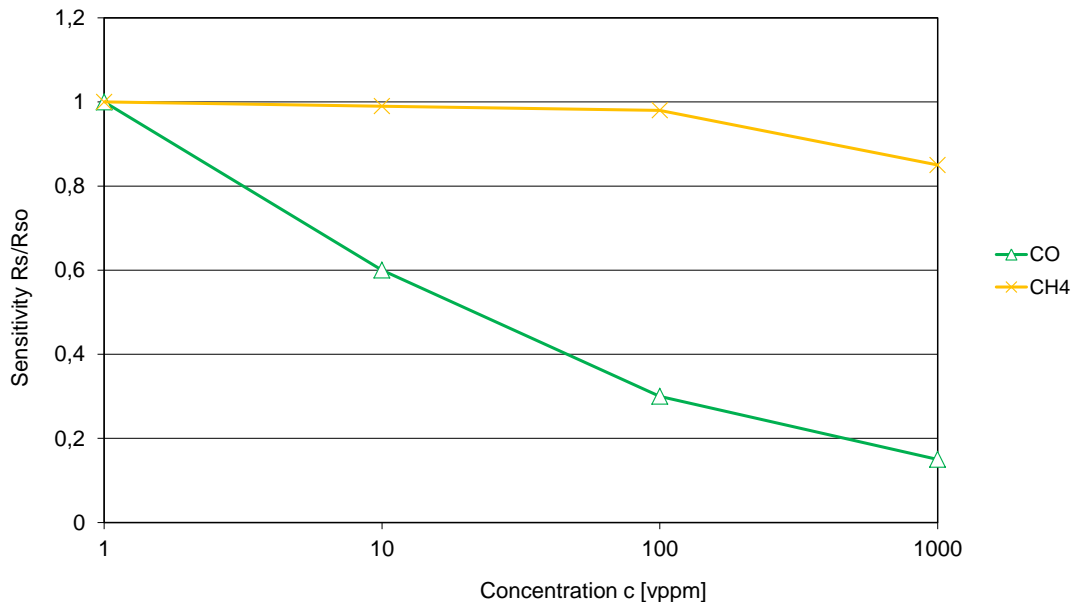


Figure 1: GGS 2530 T - Sensitivity characteristics on exposure to CO and CH<sub>4</sub> (T<sub>H</sub> = 350 °C)

### Important remarks:

Any contamination of the sensor must be avoided. The application, transport and storage environment has to be free of any contamination, particularly protected against chemical substances, e.g. silicones. In particular directly contact with substances containing, silicones, sulphurous substances or non-desorbing components or contaminations (e.g. smoke, fumes, oils, greases or evaporating liquids) may cause damaging the sensor or to changes in the sensor resistance and/or in the sensor characteristics.

The mentioned values and data are recommended values which include the fault tolerances of measuring under diffusion conditions.

For sensor control, pre-processing of the sensor signals, storage of the calibration data and data communication UST Umweltsensortechnik GmbH offers a specific electronic module.

***Please ask us for customized solutions.***