

Technical data

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

R_S... resistance sensitive layer, R_H... heater resistance

UST Umweltsensortechnik GmbH
is certified according to



Technical data

Typical sensor characteristics to selected test gases

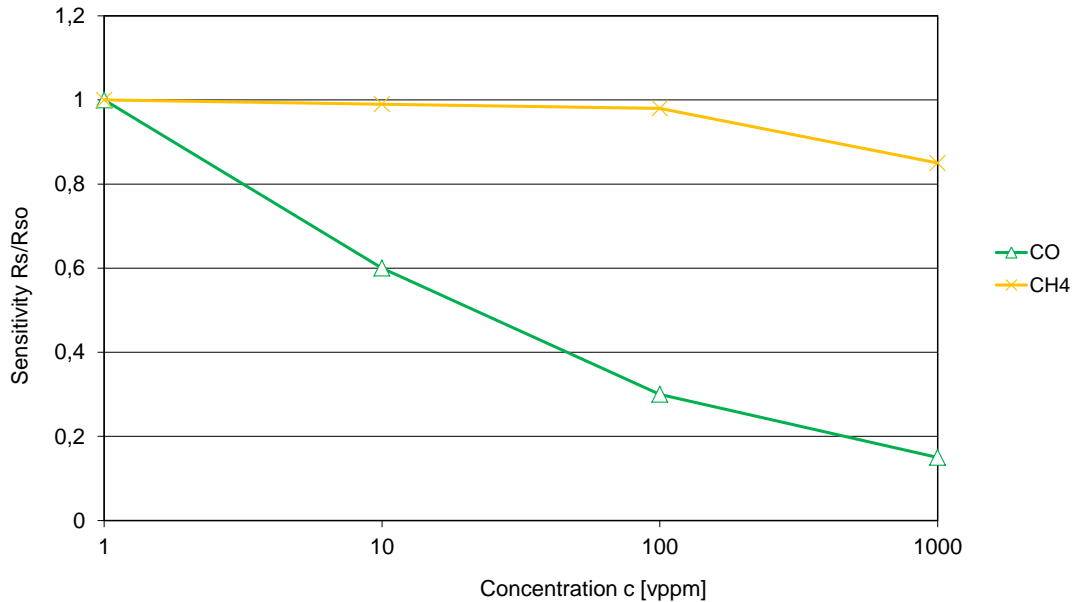


Figure 1: GGS 2530 T - Sensitivity characteristics on exposure to CO and CH₄ (T_H = 350 °C)

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.

UST Umweltsensortechnik GmbH
is certified according to

