DrägerSensor® XXS CO HC

Order no. 68 12 010

Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life
Dräger X-am 5000	no	yes	1 year	> 3 years
Dräger X-am 5600	no	yes	1 year	> 3 years
Dräger X-am 8000	no	yes	1 year	> 3 years

Selective filter

Internal selective filter.

Cross sensitivities to alcohol and acid gases (H₂S, SO₂) are eliminated.

The filter's service life can be calculated as follows: 5,000 ppm x hours of contaminant gas. Example: Given constant concentration of 10 ppm H₂S will be: Service life = 5,000 ppm x hours / 10 ppm = 500 hours.

MARKET SEGMENTS

Waste disposal industry, metal processing, petrochemical, fertilizer production, mining and tunneling (in particular monitoring high CO concentrations during rescue operations), shipping, inorganic chemicals, biogas, hazmat, steel industry, oil and gas, organic chemicals.

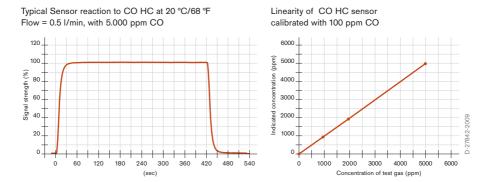
TECHNICAL SPECIFICATIONS

Detection limit:	10 ppm		
Resolution:	5 ppm		
Measurement range:	0 to 10,000 ppm CO (carbon monoxide)		
Response time:	≤ 25 seconds (T ₉₀)		
Measurement accuracy			
Sensitivity:	≤ ± 2% of measured value		
Long-term drift, at 20°C (68°F)			
Zero point:	≤ ± 5 ppm/year		
Sensitivity:	≤ ± 1% of measured value/month		
Warm-up time:	≤ 5 minutes		
Ambient conditions			
Temperature:	(-40 to 50)°C (-40 to 122)°F		
Humidity:	(10 to 90)% RH		
Pressure:	(700 to 1,300) hPa		
Influence of temperature			
Zero point:	No effect		
Sensitivity:	≤ ± 0.3% of measured value/K		
Influence of humidity			
Zero point:	No effect		
Sensitivity:	≤ ± 0.02% of measured value/% RH		
Test gas:	approx. 100 to 9,000 ppm CO		



SPECIAL CHARACTERISTICS

This sensor demonstrates excellent linearity across the whole measurement range even if calibrated in the lower reaches of that range, and it also provides a stable reading even at high concentrations over long periods of time.



The values shown in the following table are standard and apply to new sensors. The values maybe fluctuate by \pm 30%. The sensor may also be sensitive to additional gases (for more information, please contact Dräger). Gas mixtures may be displayed as the sum of all components. Gases with a negative cross sensitivity may displace an existing concentration of CO. To be sure, please check if gas mixtures are present.

RELEVANT CROSS-SENSITIVITIES

		Display in ppm CO
C_2H_2	100 ppm	≤ 200
NH ₃	100 ppm	No effect
CO ₂	30 Vol%	No effect
Cl ₂	20 ppm	No effect
C ₂ H ₅ OH	250 ppm	No effect
H ₂	0.1 Vol%	≤ 350
HCI	40 ppm	No effect
HCN	50 ppm	No effect
H ₂ S	30 ppm	No effect
(CH ₃) ₂ CCH ₂	100 ppm	No effect
NO ₂	20 ppm	No effect
NO	30 ppm	≤ 5
CH ₄	5 Vol%	No effect
C ₃ H ₈	1 Vol%	No effect
SO ₂	25 ppm	No effect
	NH ₃ CO ₂ Cl ₂ C ₂ H ₅ OH H ₂ HCl HCN H ₂ S (CH ₃) ₂ CCH ₂ NO ₂ NO CH ₄ C ₃ H ₈	NH ₃ 100 ppm CO ₂ 30 Vol% Cl ₂ 20 ppm C ₂ H ₅ OH 250 ppm H ₂ 0.1 Vol% HCI 40 ppm HCN 50 ppm H ₂ S 30 ppm (CH ₃) ₂ CCH ₂ 100 ppm NO ₂ 20 ppm NO 30 ppm CH ₄ 5 Vol% C ₃ H ₈ 1 Vol%