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200 | DrägerSensor® XXS

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

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 H_2S will be: Service life = 5,000 ppm x hours / 10 ppm = 500 hours.

MARKET SEGMENTS

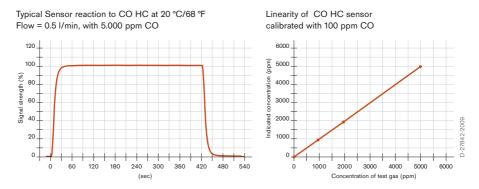
Waste disposal industry, metal processing, petrochemical, fertilizer production, mining and tunneling (in particular monitoring high CO concentrations during rescue operations), shipping, inorganic chemicals, biogas, hazmat, steel industry, oil and gas, organic chemicals.

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:	\leq ± 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:	$\leq \pm 0.3\%$ of measured value/K	
Influence of humidity		
Zero point:	No effect	
Sensitivity:	$\leq \pm 0.02\%$ 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.

Gas/vapor	Chem. symbol	Concentration	Display in ppm CO
Ammonia	NH ₃	100 ppm	No effect
Carbon dioxide	CO ₂	30 Vol%	No effect
Chlorine	Cl ₂	20 ppm	No effect
Ethanol	C ₂ H ₅ OH	250 ppm	No effect
Ethine	C ₂ H ₂	100 ppm	≤ 200
Hydrogen	H ₂	0.1 Vol%	≤ 350
Hydrogen chloride	HCI	40 ppm	No effect
Hydrogen cyanide	HCN	50 ppm	No effect
Hydrogen sulfide	H ₂ S	30 ppm	No effect
Isobutylene	(CH ₃) ₂ CCH ₂	100 ppm	No effect
Nitrogen dioxide	NO ₂	20 ppm	No effect
Nitrogen monoxide	NO	30 ppm	≤ 5
Methane	CH ₄	5 Vol%	No effect
Propane	C ₃ H ₈	1 Vol%	No effect
Sulfur dioxide	SO ₂	25 ppm	No effect

RELEVANT CROSS-SENSITIVITIES