DrägerSensor® XXS CO DrägerSensor® XXS E CO

Order no. 68 10 882 68 12 212

Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life
Dräger Pac 7000	no	yes	3 years	> 5 years
Dräger Pac 7000 5Y	no	yes	5 years	> 5 years
Dräger X-am 2500	no	yes	3 years	> 5 years
Dräger X-am 5000	no	yes	3/5 years	> 5 years
Dräger X-am 5600	no	yes	3/5 years	> 5 years
Dräger X-am 8000	no	yes	3/5 years	> 5 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: 25,000 ppm x hours of contaminant gas. Example: Given constant concentration of 10 ppm H₂S will be: Service life = 25,000 ppm x hours / 10 ppm = 2,500 hours.

MARKET SEGMENTS

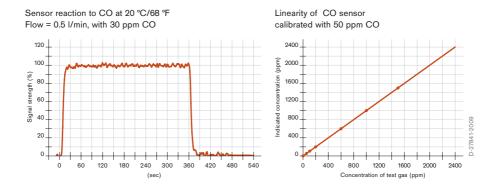
Waste disposal industry, metal processing, petrochemical, fertilizer production, mining and tunneling, shipping, inorganic chemicals, steel, organic chemicals, oil and gas, measuring dangerous substances, biogas.

TECHNICAL SPECIFICATIONS

Detection limit:	6 ppm			
Resolution:	2 ppm			
Measurement range:	0 to 2,000 ppm CO (carbon monoxide)			
Response time:	≤ 15 seconds (t ₉₀)			
Precision				
Sensitivity:	≤ ± 2% of measured value			
Long-term drift, at 20°C (68°F)				
Zero point:	≤ ± 2 ppm/year			
Sensitivity:	≤ ± 3% of measured value/year			
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:	≤ ± 5 ppm			
Sensitivity:	≤ ± 0.3% of measured value/K			
Influence of humidity				
Zero point:	No effect			
Sensitivity:	≤ ± 0.02% of measured value/% RH			
Test gas:	approx. 20 to 1800 ppm CO			

SPECIAL CHARACTERISTICS

In addition to an outstanding linearity and a quick response time, these CO sensors are highly selective. An internal selective filter, which is fitted to the sensor as standard, filters out most associated gases such as alcohol and acid gases H₂S, SO₂.



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 DRÄGERSENSOR® XXS CO AND XXS E CO

Gas/vapor	Chem. symbol	Concentration	Display in ppm CO
Acetylene C ₂ H ₂		100 ppm	≤ 200
Ammonia	NH ₃	100 ppm	No effect
Carbon dioxide	CO ₂	30 Vol%	≤ 2
Chlorine	Cl ₂	20 ppm	No effect
Ethanol	C₂H₅OH	250 ppm	No effect
Ethene	C ₂ H ₄	100 ppm	≤ 300
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