DrägerSensor[®] XXS CO LC

Order no. 68 13 210

Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life
Dräger Pac 3500/5500	no	yes	2 years	> 5 years
Dräger Pac 6000/6500	no	yes	2 years	> 5 years
Dräger Pac 7000	no	yes	2 years	> 5 years
Dräger X-am 2500	no	yes	2 years	> 5 years
Dräger X-am 5000	no	yes	2 years	> 5 years
Dräger X-am 5600	no	yes	2 years	> 5 years
Dräger X-am 8000	no	yes	2 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: 10,000 ppm x hours of contaminant gas. Example: Given constant concentration of 10 ppm H_2S will be: Service life = 10,000 ppm x hours / 10 ppm = 1,000 hours.

MARKET SEGMENTS

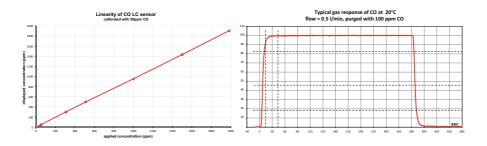
Waste disposal industry, metal processing, petrochemical, fertilizer production, mining and tunneling, shipping, inorganic chemicals, steel, organic chemicals, oil and gas, measuring dangerous substances, biogas.

TECHNICAL SPECIFICATIONS

Detection limit:	- 1 ppm			
Resolution:	1 ppm			
Measurement range:	0 to 2,000 ppm CO (carbon monoxide)			
Response time:	≤ 15 seconds (T ₉₀)			
Measurement accuracy	-			
Sensitivity:	$\leq \pm 2\%$ 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:	≤ 30 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:				
Sensitivity:	≤ ± 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. 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 H_2S , SO_2 .



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 Acetylene C_2H_2 100 ppm ≤ 200 Ammonia NH₃ 100 ppm No effect Carbon dioxide CO₂ 30 Vol.-% ≤ 2 Chlorine Cl_2 20 ppm No effect No effect Ethanol C₂H₅OH 250 ppm Hydrogen 0.1 Vol.-% ≤ 200 H_2 Hydrogen chloride HCI 40 ppm No effect HCN No effect Hydrogen cyanide 50 ppm No effect Hydrogen sulfide H₂S 30 ppm Isobutylene (CH₃)₂CCH₂ 100 ppm No effect Nitrogen dioxide NO₂ 20 ppm No effect NO ≤ 5 Nitrogen monoxide 30 ppm CH₄ 5 Vol.-% Methane No effect No effect Propane C₃H₈ 1 Vol.-% Sulfur dioxide No effect SO₂ 25 ppm

RELEVANT CROSS-SENSITIVITIES

