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

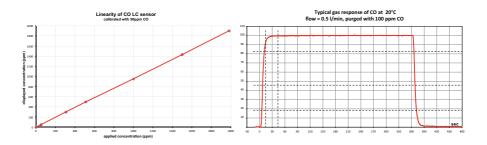
Waste disposal industry, metal processing, petrochemical, fertilizer production, mining and tunneling, shipping, inorganic chemicals, steel, organic chemicals, oil and gas, measuring dangerous substances, biogas.

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:	≤ ± 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 CO_2 Carbon dioxide 30 Vol.-% ≤ 2 Chlorine Cl_2 20 ppm No effect C₂H₅OH No effect Ethanol 250 ppm Hydrogen 0.1 Vol.-% ≤ 200 H_2 HCI No effect Hydrogen chloride 40 ppm HCN No effect Hydrogen cyanide 50 ppm H₂S No effect Hydrogen sulfide 30 ppm Isobutylene (CH₃)₂CCH₂ 100 ppm No effect Nitrogen dioxide NO₂ 20 ppm No effect NO ≤ 5 Nitrogen monoxide 30 ppm Methane CH₄ 5 Vol.-% No effect 1 Vol.-% No effect Propane C₃H₈ Sulfur dioxide SO_2 No effect 25 ppm

RELEVANT CROSS-SENSITIVITIES