DrägerSensor® XXS NO₂ LC

Order no. 68 12 600

Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life	Selective filter
Dräger Pac 8000	no	yes	1 year	> 2 years	no
Dräger X-am 5000	no	yes	1 year	> 2 years	no
Dräger X-am 5600	no	yes	1 year	> 2 years	no
Dräger X-am 8000	no	yes	1 year	> 2 years	no

MARKET SEGMENTS

Mining and tunnelling (emissions from diesel-engined vehicles), inorganic chemistry, metal processing, oil & gas, petrochemical industry, shipping, rocket technology

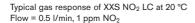
TECHNICAL SPECIFICATIONS

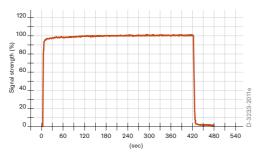
Detection limit:	0.04 ppm			
Resolution:	0.02 ppm			
Measurement range:	0 to 50 ppm NO ₂ (nitrogen dioxide)			
Response time:	≤ 15 seconds (t ₅₀)			
Precision				
Sensitivity:	≤ ± 3% of measured value			
Long-term drift, at 20°C (68°F)				
Zero point:	≤ ± 0.04 ppm/year			
Sensitivity:	≤ ± 2% of measured value/month			
Warm-up time:	≤ 120 minutes			
Ambient conditions				
Temperature:	(-30 to 50)°C (-22 to 122)°F			
Humidity:*	(15 to 80)% RH			
Pressure:	(700 to 1,300) hPa			
Influence of temperature				
Zero point:	No effect			
Sensitivity:	≤ ± 0.5% of measured value			
Influence of humidity				
Zero point:	No effect			
Sensitivity:	≤ ± 0.1% of measured value/% RH			
Test gas:	approx. 0.5 to 45 ppm NO ₂			

^{*}A use or storage over a longer period below the specified relative humidity may cause a change of sensor sensitivity due to dehydration. This effect is reversible once the relative humidity increases. Please consider the storage conditions stated on the packaging or in the instruction for use.

SPECIAL CHARACTERISTICS

Low cross sensitivities (e.g against SO_2 , H_2S , NO and CO), which allows a selective measurement of NO_2 . With a detection limit of 0.04 ppm and a quick response time this sensor is excellent to measure around the limit values.





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 NO₂. To be sure, please check if gas mixtures are present.

RELEVANT CROSS-SENSITIVITIES

Chem. symbol	Concentration	Display in ppm NO ₂ LC	
C ₂ H ₂	100 ppm	No effect	
NH ₃	30 ppm	No effect	
AsH ₃	0.5 ppm	No effect	
CO ₂	5 Vol%	No effect	
CO	2,000 ppm	No effect	
Cl ₂	1 ppm	≤ 1.5	
CIO ₂	1 ppm	≤ 1.5	
C ₂ H ₆	0.1 Vol%	No effect	
C ₂ H ₅ OH	250 ppm	No effect	
N ₂ H ₄	1 ppm	No effect	
H ₂	0.1 Vol%	No effect	
HCI	40 ppm	No effect	
HCN	50 ppm	No effect	
H ₂ S	1 ppm	≤ 0.03(-)	
(CH ₃) ₂ CCH ₂	100 ppm	No effect	
CH ₄	5 Vol%	No effect	
NO	30 ppm	No effect	
O ₃	0,5 ppm	≤1	
PH ₃	0,5 ppm	No effect	
C ₃ H ₈	1 Vol%	No effect	
SO ₂	1 ppm	≤ 0.12 ⁽⁻⁾	
	C ₂ H ₂ NH ₃ AsH ₃ CO ₂ CO Cl ₂ CIO ₂ C ₂ H ₆ C ₂ H ₅ OH N ₂ H ₄ H ₂ HCI HCN H ₂ S (CH ₃) ₂ CCH ₂ CH ₄ NO O ₃ PH ₃ C ₃ H ₈	C2H2 100 ppm NH3 30 ppm AsH3 0.5 ppm CO2 5 Vol% CO 2,000 ppm Cl2 1 ppm ClO2 1 ppm C2H6 0.1 Vol% C2H5OH 250 ppm N2H4 1 ppm HCI 40 ppm HCN 50 ppm H2S 1 ppm (CH3)2CCH2 100 ppm CH4 5 Vol% NO 30 ppm O3 0,5 ppm PH3 0,5 ppm C3H8 1 Vol%	

(-) Indicates negative deviation