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DrägerSensor® XXS NO₂LC

Order no. 68 12 600

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

MARKET SEGMENTS

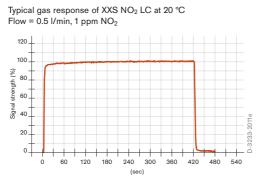
Mining and tunnelling (emissions from diesel-engined vehicles), inorganic chemistry, metal processing, oil & gas, petrochemical industry, shipping, rocket technology

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 ₉₀)			
Measurement accuracy				
Sensitivity:	$\leq \pm$ 3% of measured value			
Long-term drift,				
at 20°C (68°F), 50% RH				
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:	$\leq \pm 0.5\%$ 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			

SPECIAL CHARACTERISTICS

Low cross sensitivities (e.g against SO₂, H_2S , NO and CO), which allows a selective measurement of NO₂. 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

Gas/vapor	Chem. symbol	Concentration	Display in ppm NO ₂ LC	
Acetylene C ₂ H ₂		100 ppm	No effect	
Ammonia	NH ₃	30 ppm	No effect	
Arsine	AsH ₃	0.5 ppm	No effect	
Carbon dioxide	CO ₂	5 Vol%	No effect	
Carbon monoxide	CO	2,000 ppm	No effect	
Chlorine	Cl ₂	1 ppm	≤ 1.5	
Chlorine dioxide	CIO ₂	1 ppm	≤ 1.5 No effect No effect	
Ethane	C ₂ H ₆	0.1 Vol%		
Ethanol	C ₂ H ₅ OH	250 ppm		
Hydrazine	N ₂ H ₄	1 ppm	No effect	
Hydrogen	H ₂	0.1 Vol%	No effect	
Hydrogen chloride	HCI	40 ppm	No effect	
Hydrogen cyanide	HCN	50 ppm	No effect	
Hydrogen sulfide	H ₂ S	1 ppm	≤ 0.03(-)	
Isobutylene			No effect No effect	
Methane				
Nitrogen monoxide	NO	30 ppm	No effect ≤ 1	
Ozone	O ₃	0,5 ppm		
Phosphine	hosphine PH ₃		No effect	
Propane	ane C ₃ H ₈		No effect	
Sulfur dioxide SO ₂		1 ppm	≤ 0.12 ⁽⁻⁾	

(-) Indicates negative deviation