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232 | DrägerSensor® XXS

DrägerSensor® XXS NO₂

Order no. 68 10 884

Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life	Selective filter
Dräger Pac 7000	no	yes	1 year	> 2 years	no
Dräger X-am 2500	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

MARKET SEGMENTS

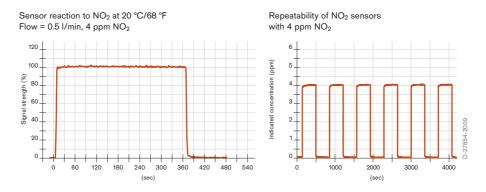
Inorganic chemicals, metal processing, oil and gas, petrochemical, steel industry, shipping, rocket engineering, mining and tunneling.

TECHNICAL SPECIFICATIONS

Detection limit:	0.2 ppm		
Resolution:	0.1 ppm		
Measurement range:	0 to 50 ppm NO ₂ (nitrogen dioxide)		
Response time:	\leq 15 seconds (T ₉₀)		
Measurement accuracy			
Sensitivity:	\leq ± 2% of measured value		
Long-term drift,			
at 20°C (68°F)			
Zero point:	≤ ± 1 ppm/year		
Sensitivity:	≤ ± 2% of measured value/month		
Warm-up time:	≤ 15 minutes		
Ambient conditions			
Temperature:	(-30 to 50)°C (-22 to 122)°F		
Humidity:	(10 to 90)% RH		
Pressure:	(700 to 1,300) hPa		
Influence of temperature			
Zero point:	≤±1 ppm		
Sensitivity:	$\leq \pm 5\%$ of measured value		
Influence of humidity			
Zero point:	No effect		
Sensitivity:	≤ ± 0.2% of measured value/% RH		
Test gas:	approx. 1 to 45 ppm NO ₂		

SPECIAL CHARACTERISTICS

This sensor's advantages include a fast response time and excellent repeatability. This sensor enables a selective measurement of NO₂. NO concentrations < 20 ppm do not influence the measurement results, thus a selective NO₂ measurement is possilbe.



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	
Ammonia	NH ₃	50 ppm	No effect	
Carbon dioxide	CO ₂	1.5 Vol%	No effect	
Carbon monoxide	CO	200 ppm	No effect	
Chlorine	Cl ₂	10 ppm	≤ 5	
Ethanol	C ₂ H ₅ OH	250 ppm	No effect	
Ethine	C ₂ H ₂	100 ppm	≤ 10 ⁽⁻⁾	
Hydrogen	H ₂	1,000 ppm	No effect	
Hydrogen chloride	HCI	20 ppm	≤ 10 ⁽⁻⁾	
Hydrogen cyanide	HCN	60 ppm	≤ 10 ⁽⁻⁾	
Hydrogen sulfide	H ₂ S	20 ppm	≤ 100(-)	
Isobutylene	(CH ₃) ₂ CCH ₂	10 ppm	≤ 0.8(-)	
Methane	CH4	1 Vol%	No effect	
Nitrogen monoxide	NO	20 ppm	No effect	
Ozone	O ₃	0.5 ppm	No effect	
Phosphine	PH ₃	1 ppm	≤ 4 ⁽⁻⁾	
Sulphur dioxide	SO ₂	20 ppm	≤ 20(-)	

(-) Indicates negative deviation