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
Dräger X-am	no	yes	1 year	> 2 years	no
3500/8000					

MARKET SEGMENTS

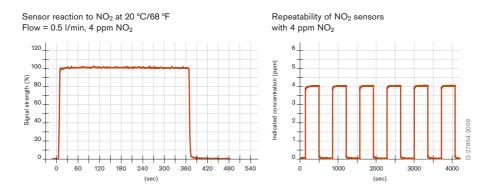
Inorganic chemicals, metal processing, oil and gas, petrochemical, steel industry, shipping, rocket engineering, mining and tunneling.

TECHNICAL SPECIFICATIONS

Detection limit:	0.2 ppm	
Resolution:	0.1 ppm	
Measurement range:	0 to 50 ppm NO ₂ (nitrogen dioxide)	
Response time:	≤ 15 seconds (t ₉₀)	
Precision		
Sensitivity:	≤ ± 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:	≤ ± 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 NO_2 . NO concentrations < 20 ppm do not influence the measurement results, thus a selective NO_2 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
Acetylene	C ₂ H ₂	100 ppm	≤ 10(-)
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
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	100 ppm	≤ 0.8(-)
Methane	CH ₄	1 Vol%	No effect
Nitrogen monoxide	NO	20 ppm	No effect
Ozone	O ₃	0.5 ppm	0.5
Phosphine PH ₃		1 ppm	≤ 4(-)
Sulphur dioxide SO ₂		20 ppm	≤ 20 ⁽⁻⁾