DrägerSensor® XXS NH₃

Order no. 68 10 888

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

Food and beverage, poultry farming, power generation, inorganic chemicals, fertilizer production, hazmat, fumigation, metal processing, petrochemical, pulp and paper.

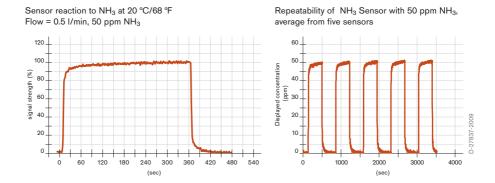
TECHNICAL SPECIFICATIONS

Detection limit:	4 ppm			
Resolution:	1 ppm			
Measurement range:	0-300 ppm NH ₃ (ammonia)			
Response time:	≤ 10 seconds (T ₅₀)			
Measurement accuracy				
Sensitivity:	≤ ± 3% of measured value			
Long-term drift, at 20°C (68°F)				
Zero point:	≤ ± 5 ppm/year			
Sensitivity:	≤ ± 2% of measured value/month			
Warm-up time:	≤ 12 hours			
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:	≤ ± 5 ppm			
Sensitivity:	≤ ± 5% of measured value			
Influence of humidity				
Zero point:	≤ ± 0.1 ppm/% RH			
Sensitivity:	≤ ± 0.2% of measured value/% RH			
Test gas:	approx. 10 to 75 ppm NH ₃			

^{*}Sudden temperature or humidity changes lead to dynamic effects (fluctuations). These dynamic effects decrease within 2 to 3 minutes.

SPECIAL CHARACTERISTICS

A fast response time and excellent repeatability are just two examples of this sensor's special characteristics.



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 NH $_3$. To be sure, please check if gas mixtures are present.

RELEVANT CROSS-SENSITIVITIES

Gas/vapor	Chem. symbol	Concentration	Display in ppm NH ₃	
Acetylene	C ₂ H ₂	100 ppm	No effect	
Carbon dioxide	CO ₂	10 Vol%	No effect	
Carbon monoxide	СО	1,000 ppm	No effect	
Chlorine	Cl ₂	10 ppm	≤ 30 (-)	
Ethanol	C ₂ H ₅ OH	250 ppm	≤ 40	
Hydrogen	H ₂	1,000 ppm	≤ 4	
Hydrogen chloride	HCI	20 ppm	≤ 15 (-)	
Hydrogen sulfide	H ₂ S	20 ppm	≤ 70	
Isobutylene	(CH ₃) ₂ CCH ₂	100 ppm	No effect	
Methane	CH ₄	0.9 Vol%	No effect	
Nitrogen dioxide	NO ₂	20 ppm	≤ 10 (-)	
Nitrogen monoxide	NO	20 ppm	≤ 10	
Ozone	O ₃	0.5 ppm	No effect	
Phosphine PH ₃		1 ppm	≤ 2	
Sulfur dioxide	SO ₂	20 ppm	No effect	