

# DrägerSensor® XS EC NH<sub>3</sub>

Order no. 68 09 145

Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life	Selective filter
Dräger X-am 7000	yes	yes	1 year	> 2 years	–

## MARKET SEGMENTS

Food and beverage, poultry farming, power generation, inorganic chemicals, fertilizer production, analysis of chemical war agents, hazmat, fumigation, metal processing, petrochemicals, pulp and paper.

## TECHNICAL SPECIFICATIONS

Detection limit:	3 ppm
Resolution:	1 ppm
Measurement range:	0 to 300 ppm NH <sub>3</sub> (ammonia)
Response time:	≤ 20 seconds (T <sub>50</sub> )
Measurement accuracy	
Sensitivity:	≤ ± 3% of measured value
Long-term drift, at 20°C (68°F)	
Zero point:	≤ ± 2 ppm/month
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 150 ppm NH <sub>3</sub>

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

## SPECIAL CHARACTERISTICS

The quick response time of this sensor provides a fast and reliable warning against ammonia.

The values shown in the following table are standard and apply to new sensors. The values may 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  $\text{NH}_3$ . To be sure, please check if gas mixtures are present. .

## RELEVANT CROSS-SENSITIVITIES

Gas/vapor	Chem. symbol	Concentration	Display in ppm $\text{NH}_3$
Acetone	$\text{CH}_3\text{COCH}_3$	1,000 ppm	No effect
Carbon dioxide	$\text{CO}_2$	1.5 Vol. %	$\leq 5^{(-)}$
Carbon monoxide	$\text{CO}$	200 ppm	No effect
Chlorine	$\text{Cl}_2$	10 ppm	$\leq 20^{(-)}$
Ethene	$\text{C}_2\text{H}_4$	1,000 ppm	$\leq 3$
Ethine	$\text{C}_2\text{H}_2$	200 ppm	No effect
Hydrogen	$\text{H}_2$	1,000 ppm	$\leq 3$
Hydrogen cyanide	$\text{HCN}$	25 ppm	$\leq 3$
Hydrogen sulfide	$\text{H}_2\text{S}$	20 ppm	$\leq 50$
Methane	$\text{CH}_4$	10 Vol. %	No effect
Methanol	$\text{CH}_3\text{OH}$	200 ppm	$\leq 3$
Nitrogen dioxide	$\text{NO}_2$	20 ppm	$\leq 10^{(-)}$
Nitrogen monoxide	$\text{NO}$	20 ppm	$\leq 10$
Phosphine	$\text{PH}_3$	5 ppm	$\leq 8$
Sulfur dioxide	$\text{SO}_2$	20 ppm	No effect
Tetrahydrothiophene	$\text{C}_4\text{H}_8\text{S}$	10 ppm	$\leq 10$

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