128 | DrägerSensor® XS

DrägerSensor® XS EC Amine

Order no. 68 09 545

Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life	Selective filter
Dräger X-am 7000	yes	yes	1 year	> 1.5 years	-

MARKET SEGMENTS

Foundries, refineries, power plants

TECHNICAL SPECIFICATIONS

TECHNICAL SI ECH ICATIO				
Detection limit:	2 ppm			
Resolution:	1 ppm			
Measurement range/	0 to 100 ppm CH ₃ NH ₂ (methylamine) 0.70			
Relative sensitivity	0 to 100 ppm (CH ₃) ₂ NH (dimethylamine) 0.50			
	0 to 100 ppm (CH ₃) ₃ N (trimethylamine)	0.50		
	0 to 100 ppm C ₂ H ₅ NH ₂ (ethylamine)	0.70		
	0 to 100 ppm (C ₂ H ₅) ₂ NH (diethylamine)	0.50		
	0 to 100 ppm (C ₂ H ₅) ₃ N (triethylamine)	0.50		
	0 to 100 ppm NH ₃ (ammonia)*	1.00		
Response time:	≤ 30 seconds (T ₅₀)			
Measurement accuracy				
Sensitivity:	≤ ± 3% of measured value			
Long-term drift, at 20°C (68°F)				
Zero point:	≤ ± 2 ppm/month			
Sensitivity:	≤ ± 3% 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. 5 to 100 ppm NH_3 , CH_3NH_2 , $(CH_3)_2NH$, $(CH_3)_3N$,			
	$C_2H_5NH_2$, $(C_2H_5)_2NH$, $(C_2H_5)_3N$			

^{*} lead compound

SPECIAL CHARACTERISTICS

Six different amines can be detected using this sensor. It is sufficient to calibrate it using an ammonia test gas. By doing so, all of the other amines are then automatically calibrated.

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 amine. To be sure, please check if gas mixtures are present.

RELEVANT CROSS-SENSITIVITIES

Gas/vapor	Chem. symbol	Concentration	Display in ppm NH ₃	
Acetone	CH ₃ COCH ₃	1,000 ppm	No effect	
Carbon dioxide	CO ₂	1.5 Vol. %	≤ 5(-)	
Carbon monoxide	CO	200 ppm	No effect	
Chlorine	Cl ₂	10 ppm	≤ 20(-)	
Ethene	C ₂ H ₄	1,000 ppm	≤ 3	
Ethine	C ₂ H ₂	200 ppm	No effect	
Hydrogen	H ₂	1,000 ppm	≤ 3	
Hydrogen cyanide	HCN	25 ppm	≤ 3	
Hydrogen sulfide	H ₂ S	20 ppm	≤ 50	
Methane	CH ₄	10 Vol. %	No effect	
Methanol	CH₃OH	200 ppm	≤ 3	
Nitrogen dioxide	NO ₂	20 ppm	≤ 10(-)	
Nitrogen monoxide	NO	20 ppm	≤ 10	
Phosphine	PH ₃	5 ppm	≤ 8	
Sulfur dioxide SO ₂		20 ppm	No effect	
Tetrahydrothiophene C ₄ H ₈ S		10 ppm	≤ 10	

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