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148 | DrägerSensor® XS

DrägerSensor® XS EC HCN Order no. 68 09 1						
Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life	Selective filter	
Dräger X-am 7000	yes	yes	1 year	> 1.5 years	-	

MARKET SEGMENTS

Metal processing, mining, fumigation and pest control, chemical war agent (blood agents).

TECHNICAL SPECIFICATIONS

Detection limit:	0.5 ppm			
Resolution:	0.1 ppm			
Measurement range:	0 to 50 ppm HCN (hydrogen cyanide)			
Response time:	\leq 10 seconds (T ₅₀)			
Measurement accuracy	-			
Sensitivity:	≤ ± 5% of measured value			
Long-term drift, at 20°C (68°F)	-			
Zero point:	≤ ± 1 ppm/month			
Sensitivity:	≤ ± 5% of measured value/month			
Warm-up time:	≤ 15 minutes			
Ambient conditions	-			
Temperature:	(-20 to 50)°C (-4 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:	≤ ± 0.1% of measured value/% RH			
Test gas:	3 to 50 ppm HCN			
	After long periods of exposure > 10 ppm HCN/hour, the sensor			
	should be recalibrated.			

SPECIAL CHARACTERISTICS

The extremely quick response time of this sensor provides a fast and reliable warning against prussic acid (hydrogen cyanide).

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

Gas/vapor	Chem. symbol	Concentration	Display in ppm HCN
Acetone	CH ₃ COCH ₃	1,000 ppm	No effect
Ammonia	NH ₃	200 ppm	No effect
Carbon dioxide	CO ₂	1.5 Vol. %	No effect
Carbon monoxide	СО	1,000 ppm	≤ 0.5
Chlorine	Cl ₂	10 ppm	≤ 10(-)
Ethene	C ₂ H ₄	1,000 ppm	No effect
Ethylene oxide	C ₂ H ₄ O	30 ppm	No effect
Ethine	C ₂ H ₂	200 ppm	≤ 20
Formaldehyde	НСНО	50 ppm	≤ 2
Hydrogen	H ₂	1.6 Vol. %	≤ 10
Hydrogen sulfide	H ₂ S	20 ppm	≤ 5
i-propanol	(CH ₃) ₂ CHOH	500 ppm	No effect
Methane	CH ₄	20 Vol. %	No effect
Methanol	CH ₃ OH	175 ppm	No effect
Nitrogen dioxide	NO ₂	10 ppm	≤ 10(-)
Nitrogen monoxide	NO	20 ppm	≤ 0.5
Phosphine	PH ₃	5 ppm	≤ 25
Propane	C ₃ H ₈	1 Vol. %	No effect
Sulfur dioxide	SO ₂	20 ppm	≤ 10
Tetrahydrothiophene	C ₄ H ₈ S	10 ppm	≤ 0.5