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DrägerSensor® XS EC Hydrazine D Order no. 68 10 295							
Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life	Selective filter		
Pac III S / E*	yes	yes	6 months	6 months	_		

MARKET SEGMENTS

Rocket fuel, aircraft fuel (e.g. F-16), fuel for emergency power generators, for electrochemical power generation in secondary cells or in alkaline fuel cells, especially in space travel, submarines, and other military equipment.

TECHNICAL SPECIFICATIO	NS				
Detection limit:	0.01 ppm				
Resolution:	0.01 ppm				
Measurement range:	0 to 5 ppm N ₂ H ₄ (hydrazine)				
	0 to 5 ppm CH ₃ NH-NH ₂ (methyl hydrazine)				
	0 to 5 ppm (CH ₃) ₂ N-NH ₂ (dimethylhydrazine)				
Response time:	≤ 180 seconds (T ₉₀)				
Measurement accuracy	-				
Sensitivity:	$\leq \pm 20\%$ of measured value				
Long-term drift, at 20°C (68°F)	-				
Zero point:	≤ ± 0.01 ppm/month				
Sensitivity:	≤ ± 20% of measured value/6 months				
Warm-up time:	≤1 hour				
Ambient conditions	-				
Temperature:	(-20 to 50)°C (-4 to 122)°F				
Humidity:	(15 to 95)% RH				
Pressure:	(700 to 1,300) hPa				
Influence of temperature					
Zero point:	No effect				
Sensitivity:	$\leq \pm 5\%$ of measured value				
Influence of humidity					
Zero point:	No effect				
Sensitivity:	≤ ± 0.1% of measured value/% RH				
Test gas:	0.1 to 3 ppm N ₂ H ₄ , CH ₃ NH-NH ₂ , (CH ₃) ₂ N-NH ₂				

TECHNICAL SPECIFICATIONS

*The DrägerSensor XS EC Hydrazine D can be ordered as a replacement sensor for the Dräger Pac III S/E.

The Dräger Pac III will no longer be sold at the end of 2011. The DrägerSensor XS EC Hydrazine used in combination with the Dräger X-am 5100 can then be used to monitor hydrazine concentrations.

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SPECIAL CHARACTERISTICS

This sensor is used exclusively in the Dräger Pac III for monitoring concentrations of hydrazine (N₂H₄), methyl hydrazine (CH₃NH-NH₂), and dimethylhydrazine ((CH₃)₂N-NH₂). Hydrazines tend to be adsorbed by surfaces, which means a special sensor cap should be used (order no. 68 09 541). This sensor does not have to be recalibrated during its limited life span.

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

RELEVANT CROSS-SENSITIVITIES

Gas/vapor	Chem. symbol	Concentration	Display in ppm N ₂ H ₄	
Acetone	CH ₃ COCH ₃	1,000 ppm	No effect	
Ammonia	NH ₃	250 ppm	≤ 2.5	
Carbon dioxide	CO ₂	100 Vol. %	No effect	
Carbon monoxide	CO	1,000 ppm	No effect	
Chlorine	Cl ₂	10 ppm	≤ 0.1(-)	
Ethanol	C ₂ H ₅ OH	130 ppm	No effect	
Ethene	C ₂ H ₄	20 ppm	No effect	
Hydrogen	H ₂	1,000 ppm	No effect	
Hydrogen sulfide	H ₂ S	20 ppm	≤ 0.25	
i-propanol	(CH ₃) ₂ CHOH	1,000 ppm	No effect	
Methane	CH ₄	3 Vol. %	No effect	
Nitrogen dioxide	NO ₂	20 ppm	≤ 0.05	
Nitrogen monoxide	NO	25 ppm	≤ 0.05	
Propane	C ₃ H ₈	1.5 Vol. %	No effect	
Sulfur dioxide	SO ₂	10 ppm	No effect	