Visit: www.thesafetyequipmentstore.com Or Email: besafe@thesafetyequipmentstore.com for Sales & Service. 146| DrägerSensor® XS

DrägerSensor® XS EC H ₂ HC Order no. 68 11						
Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life	Selective filter	
Dräger X-am 7000	yes	yes	1 year	> 2 years	_	

MARKET SEGMENTS

Ammonia synthesis, fuel refinement (hydrocracking), sulfur elimination, chemical, rocket fuel, leakage inspection, metal processing, industrial gases, fertilizer production, battery chargers, fuel cells.

TECHNICAL SPECIFICATIONS

Detection limit:	- 0.02 Vol. %		
Resolution:			
Measurement range:	0 to 4 Vol. % H ₂ (hydrogen)		
Response time:	\leq 20 seconds (T ₅₀)		
Measurement accuracy	-		
Sensitivity:	$\leq \pm 2\%$ of measured value		
Long-term drift, at 20°C (68°F)			
Zero point:	≤ ± 0.05 Vol. %/year		
Sensitivity:	≤ ± 3% of measured value/month		
Warm-up time:	≤ 1 hour		
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:	≤ ± 0.05 Vol. %		
Sensitivity:	$\leq \pm 5\%$ of measured value		
Influence of humidity	-		
Zero point:	No effect		
Sensitivity:	≤ ± 0.1% of measured value/% RH		
Test gas:	0.2 to 4 Vol. % H ₂ test gas		

SPECIAL CHARACTERISTICS

This sensor covers the entire range of LELs up to 4 Vol. % H₂, and is therefore the ideal addition when using IR technology in the Dräger X-am 7000 to measure for explosion risks. The sensor also offers high selectivity (see cross-sensitivity specifications) and linearity.

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 H₂. To be sure, please check if gas mixtures are present.

RELEVANT CROSS-SENSITIVITIES

Gas/vapor	Chem. symbol	Concentration	Display in Vol. % H ₂
Ammonia	NH ₃	500 ppm	No effect
Carbon dioxide	CO ₂	1.5 Vol. %	No effect
Carbon monoxide	CO	1,000 ppm	≤ 0.1
Chlorine	Cl ₂	50 ppm	No effect
Ethanol	C ₂ H ₅ OH	250 ppm	No effect
Ethylene	C_2H_4	1,000 ppm	≤ 0.1
Ethine	C ₂ H ₂	200 ppm	≤ 0.02
Hydrogen cyanide	HCN	50 ppm	No effect
Hydrogen sulfide	H ₂ S	20 ppm	≤ 0.1
Methane	CH ₄	1 Vol. %	No effect
Nitrogen dioxide	NO ₂	20 ppm	No effect
Nitrogen monoxide NO		20 ppm	≤ 0.05
Phosphine PH ₃		5 ppm	≤ 0.02
Sulfur dioxide	SO ₂	20 ppm	No effect