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220 | DrägerSensor® XXS

DrägerSensor® XXS H₂S HC

Order no. 68 12 015

Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life	Selective filter
Dräger X-am 5000	no	yes	1 year	> 3 years	no
Dräger X-am 5600	no	yes	1 year	> 3 years	no

MARKET SEGMENTS

Waste disposal industry, petrochemical, fertilizer production, sewage, mining and tunneling, shipping, inorganic chemicals, steel industry, pulp and paper, organic chemicals, oil and gas, measuring hazardous material, biogas.

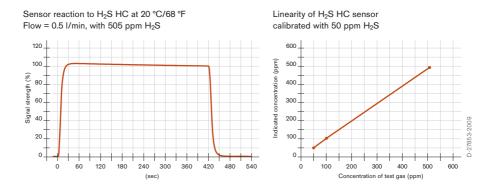
TECHNICAL SPECIFICATIONS

Detection limit:	4 ppm		
Resolution:	2 ppm		
Measurement range:	0 to 1,000 ppm H ₂ S (hydrogen sulfide)		
Response time:	≤ 15 seconds (T ₉₀)		
Measurement accuracy	-		
Sensitivity:	$\leq \pm 2\%$ of measured value		
Long-term drift, at 20°C (68°F)	-		
Zero point:	≤ ± 2 ppm/year		
Sensitivity:	≤ ± 1% of measured value/month		
Warm-up time:	≤ 5 minutes		
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:	No effect		
Sensitivity:	\leq ± 5% of measured value		
Influence of humidity	_		
Zero point:	No effect		
Sensitivity:	$\leq \pm 0.03\%$ of measured value/% RH		
Test gas: approx. 40 to 900 ppm H ₂ S			

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

SPECIAL CHARACTERISTICS

Because of its excellent linearity, this sensor can be calibrated in its lower measurement range using a hydrogen sulfide test gas without compromising on accuracy in its upper measurement range. It also offers a fast response time and good selectivity.



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 H₂S. To be sure, please check if gas mixtures are present.

RELEVANT CROSS-SENSITIVITIES

Gas/vapor	Chem. symbol	Concentration	Display in ppm H ₂ S	
Ammonia	NH ₃	200 ppm	No effect	
Carbon dioxide	CO ₂	5 Vol%	No effect	
Carbon monoxide	CO	500 ppm	No effect	
Chlorine	Cl ₂	10 ppm	No effect	
Ethanol	C ₂ H ₅ OH	250 ppm	No effect	
Ethine C ₂ H ₂ Hydrogen H ₂ Hydrogen chloride HCl		100 ppm	No effect No effect No effect	
		0.1 Vol%		
		40 ppm		
Hydrogen cyanide	HCN	50 ppm	No effect	
Hydrogen phosphide PH ₃		5 ppm	≤ 4	
Isobutylene (CH ₃) ₂ CCH ₂ Methane CH ₄		100 ppm	No effect No effect	
		5 Vol%		
Nitrogen dioxide NO ₂		20 ppm	≤ 5 ⁽⁻⁾	
Nitrogen monoxide NO		30 ppm	No effect	
Propane C ₃ H ₈		1 Vol%	No effect	
Sulfur dioxide	SO ₂	20 ppm	≤ 2	

(-) Indicates negative deviation

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