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DrägerSensor® XXS COCl₂

Order no. 68 12 005

Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life	Selective filter
Dräger X-am 5000	no	yes	0.5 years	> 1 year at below 25°C	no
Dräger X-am 5600	no	yes	0.5 years	> 6 months at 35°C	

MARKTSEGMENTE

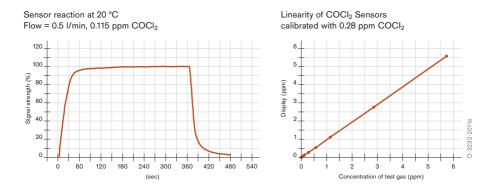
Manufacture of plastics, chemical industry, insecticides production, dyes, military

TECHNISCHE DATEN

Detection limit:				
Resolution:				
Measurement range:	0 bis 10 ppm COCl ₂ (Phosgene)			
Response time:	\leq 20 seconds (T ₂₀)			
Measurement accuracy				
Sensitivity:	$\leq \pm 5\%$ of measured value			
Long-term drift, at 20°C (68°F)	-			
Zero point:	_ ≤ ± 0,01 ppm/year			
Sensitivity:	\leq ± 1% of measured value/month			
Warm-up time:	≤ 1 hour			
Ambient conditions				
Temperature:	(-20 to 35) °C (-4 to 99) °F			
Humidity:	(10 to 90)% RH			
Pressure:	(700 to 1300) hPa			
Influence of temperature				
Zero point:	no effect			
Sensitivity:	$\leq \pm 0.2\%$ of measured value/K			
Influence of humidity				
Zero point:	no effect			
Sensitivity:	≤ ± 0.05% of measured value/RH			
Test gas:	COCl ₂ test gas between 3.8 to 9 ppm (not in Dräger's portfolio)			

SPECIAL CHARACTERISTICS

This sensor's advantages include a very low detection limit, excellent linearity and high signal stability.



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 COCl₂. To be sure, please check if gas mixtures are present.

RELEVANT CROSS-SENSITIVITIES

Gas/vapor	Chem. Symbol	Concentration	Reading in ppm COCl ₂	
Ammonia	NH ₃	20 ppm	No effect	
Carbon dioxide	CO ₂	1,5 Vol%	No effect	
Carbon monoxide	CO	1000 ppm	No effect	
Chlorine	Cl ₂	0,5 ppm	≤ 0.2	
Ethanol	C ₂ H ₅ OH	260 ppm	No effect	
Ethine	C ₂ H ₂	20 ppm	No effectNo effect ≤ 0.7 $\leq 0.1 \text{ ppm}$ No effect $\leq 1^{1)}$ No effect $\leq 0.1(-)$	
Hydrogen	H ₂	8000 ppm		
Hydrogen chloride	HCI	0,5 ppm		
Hydrogen fluoride	HF	0,4 ppm		
Hydrogen peroxide	H ₂ O ₂	1 ppm		
Hydrogen sulfide	H ₂ S	1 ppm		
Isobutylene	(CH ₃) ₂ CCH ₂	100 ppm		
Nitrogen dioxide	NO ₂	1 ppm		
Nitrogen monoxide	NO	30 ppm	No effect	
Ozone	O ₃	0,3 ppm	≤ 0.05(-)	
Phosphine	PH ₃	0,5 ppm	≤ 0.1 ppm	
Propanol C ₃ H ₇ OH		500 ppm	No effect	
Sulfur dioxide	SO ₂	2 ppm	No effect	

(-) Indicates negative deviation

1) Permanent exposure to H2S can result in a reduction of sensitivity.