Visit: www.thesafetyequipmentstore.com Or Email: besafe@thesafetyequipmentstore.com for Sales & Service.

192 | DrägerSensor® XXS

DrägerSensor® XXS Cl₂

Order no. 68 10 890

Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life	Selective filter
Dräger Pac 7000	no	yes	1 year	> 2 years	no
Dräger X-am 5000	no	yes	1 year	> 2 years	no
Dräger X-am 5000	no	yes	1 year	> 2 years	no

MARKET SEGMENTS

Food and beverage, inorganic chemicals, manufacture of plastics, measuring dangerous substances, pulp and paper, power generation, sewage plants, water treatment.

TECHNICAL SPECIFICATIONS

Detection limit:	0.05 ppm		
Resolution:	0.05 ppm		
Measurement range/	0 to 20 ppm Cl ₂ (chlorine)	1.00	
relative sensitivity	0 to 20 ppm F ₂ (fluorine)		
	0 to 20 ppm Br ₂ (bromine)	1.00	
	0 to 20 ppm ClO ₂ (chlorine dioxide)	0.60	
Response time:	≤ 30 seconds (T ₉₀)		
Measurement accuracy			
Sensitivity:	$\leq \pm 2\%$ of measured value		
Long-term drift, at 20°C (68°F)			
Zero point:	≤ ± 0.2 ppm/year		
Sensitivity:	≤ ± 2% of measured value/month		
Warm-up time:	≤ 30 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:	≤ ± 0.05 ppm		
Sensitivity:	≤ ± 5% of measured value		
Influence of humidity			
Zero point:	No effect		
Sensitivity:	≤ ± 0.4% of measured value/% RH		
Test gas:	approx. 1 to 18 ppm Cl ₂		

SPECIAL CHARACTERISTICS

This sensor is suitable for monitoring concentrations of chlorine, bromine, fluorine, and chlorine dioxide in the ambient air. These sensors' advantages include excellent linearity and fast response times.



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

Gas/vapor	Chem. symbol	Concentration	Display in ppm Cl ₂ No effect	
Ammonia	NH ₃	50 ppm		
Carbon dioxide	CO ₂	10 Vol%	No effectNo effectNo effectNo effect ≤ 0.6 No effect ≤ 0.6 (-)No effect	
Carbon monoxide	CO	1,000 ppm		
Ethanol	C ₂ H ₅ OH	250 ppm		
Ethine	C ₂ H ₂	100 ppm		
Hydrogen	H ₂	1,000 ppm		
Hydrogen chloride	HCI	20 ppm		
Hydrogen cyanide	HCN	60 ppm		
Hydrogen sulfide	H ₂ S	10 ppm		
Isobutylene	(CH ₃) ₂ CCH ₂	100 ppm		
Methane CH4 Nitrogen dioxide NO2		0.9 Vol%	No effect No effect	
		10 ppm		
Nitrogen monoxide NO		20 ppm	No effect	
Ozone O ₃		1 ppm	No effect	
Phosphine PH ₃		1 ppm	No effect	
Sulfur dioxide SO ₂		10 ppm	≤ 1 ⁽⁻⁾	

RELEVANT CROSS-SENSITIVITIES

(-) Indicates negative deviation