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 Pac 8000	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
Dräger X-am 8000	no	yes	1 year	> 2 years	no

MARKET SEGMENTS

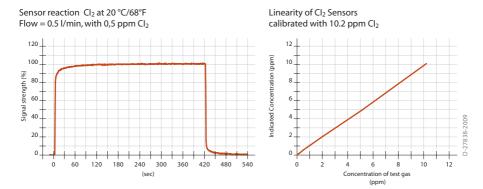
Food and beverage, inorganic chemicals, manufacture of plastics, measuring dangerous substances, pulp and paper, power generation, sewage plants, water treatment.

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)	1.00			
	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)				
Precision					
Sensitivity:	≤ ± 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	<u> </u>				
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.

RELEVANT CROSS-SENSITIVITIES

Gas/vapor	Chem. symbol	Concentration	Display in ppm Cl ₂
Acetylene	C ₂ H ₂	100 ppm	No effect
Ammonia	NH ₃	50 ppm	No effect
Carbon dioxide	CO ₂	10 Vol%	No effect
Carbon monoxide	CO	1,000 ppm	No effect
Ethanol	C ₂ H ₅ OH	250 ppm	No effect
Hydrogen	H ₂	1,000 ppm	No effect
Hydrogen chloride	HCI	20 ppm	≤ 0.5
Hydrogen cyanide	HCN	60 ppm	No effect
Hydrogen sulfide	H ₂ S	10 ppm	≤ 0.6 (-)
Isobutylene	(CH ₃) ₂ CCH ₂	100 ppm	No effect
Methane	CH ₄	0.9 Vol%	No effect
Nitrogen dioxide	NO ₂	10 ppm	No effect
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 (-)
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