DrägerSensor® XXS Cl₂

Order no. 68 10 890

Plug & Play	Replaceable	Guaranty	Expected sensor life	Selective filter
no	yes	1 year	> 2 years	no
no	yes	1 year	> 2 years	no
no	yes	1 year	> 2 years	no
no	yes	1 year	> 2 years	no
no	yes	1 year	> 2 years	no
	no no	no yes no yes no yes no yes	no yes 1 year no yes 1 year no yes 1 year no yes 1 year	no yes 1 year > 2 years no yes 1 year > 2 years no yes 1 year > 2 years no yes 1 year > 2 years

MARKET SEGMENTS

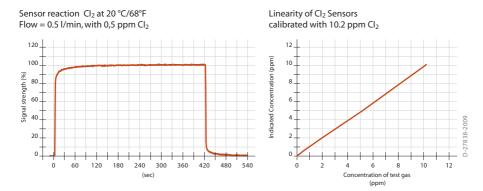
Food and beverage, inorganic chemicals, manufacture of plastics, measuring dangerous substances, pulp and paper, power generation, sewage plants, water treatment.

TECHNICAL SPECIFICATIONS

Detection limit:	0.05 ppm			
Resolution:	0.05 ppm	1.00		
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)			
	0 to 20 ppm ClO ₂ (chlorine dioxide)			
Response time:	≤ 30 seconds (T ₉₀)			
Measurement accuracy				
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				
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	≤ 0.6
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 (-)