# DrägerSensor® XS EC COCl<sub>2</sub>

Order no. 68 08 582

Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life	Selective filter
Dräger X-am 7000	yes	yes	6 months	> 1 year	_

### **MARKET SEGMENTS**

Production of plastics, insecticides production, dyes.

## **TECHNICAL SPECIFICATIONS**

TECHNICAL SPECIFICATIO	N5			
Detection limit:	0.01 ppm			
Resolution:	0.01 ppm			
Measurement range:	0 to 10 ppm COCl <sub>2</sub> (phosgene)			
Response time:	≤ 20 seconds (T <sub>20</sub> )			
	≤ 40 seconds (T <sub>50</sub> )			
Measurement accuracy	-			
Sensitivity:	≤ ± 10% of measured value			
Long-term drift, at 20°C (68°F)	-			
Zero point:	≤ ± 0.01 ppm/month			
Sensitivity:	≤ ± 2% of measured value/month			
Warm-up time:	≤ 1 hour			
Ambient conditions	_			
Temperature:	(-20 to 40)°C (-4 to 104)°F			
Humidity:	(10 to 90)% RH			
Pressure:	(700 to 1,300) hPa			
Influence of temperature	_			
Zero point:	≤ ± 0.001 ppm/K			
Sensitivity:	≤ ± 1% of measured value/K			
Influence of humidity	_			
Zero point:	No effect			
Sensitivity:	≤ ± 0.05% of measured value/% RH			
Test gas:	3 to 10 ppm COCl <sub>2</sub>			

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## SPECIAL CHARACTERISTICS

The XS Phosgene sensor is highly selective, especially against hydrogen chloride (HCI).

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

### **RELEVANT CROSS-SENSITIVITIES**

Gas/vapor	Chem. symbol	Concentration	Display in ppm COCl <sub>2</sub>
Ammonia	NH <sub>3</sub>	20 ppm	No effect
Carbon dioxide	CO <sub>2</sub>	1.5 Vol. %	No effect
Carbon monoxide	CO	1,000 ppm	No effect
Chlorine	Cl <sub>2</sub>	0.5 ppm	≤ 0.2
Ethanol	C <sub>2</sub> H <sub>5</sub> OH	260 ppm	No effect
Ethine	C <sub>2</sub> H <sub>2</sub>	20 ppm	No effect
Hydrogen	H <sub>2</sub>	8,000 ppm	No effect
Hydrogen chloride	HCI	0.5 ppm	≤ 0.7
Hydrogen peroxide	H <sub>2</sub> O <sub>2</sub>	1 ppm	No effect
Hydrogen sulfide	H <sub>2</sub> S	1 ppm	≤1
Nitrogen dioxide	NO <sub>2</sub>	1 ppm	≤ 0.1(-)
Nitrogen monoxide	NO	30 ppm	No effect
Ozone	O <sub>3</sub>	0.3 ppm	≤ 0.05(-)
Propanol	C <sub>3</sub> H <sub>7</sub> OH	500 ppm	No effect
Sulfur dioxide	SO <sub>2</sub>	2 ppm	No effect