DrägerSensor® XS EC NO

Order no. 68 09 125

Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life	Selective filter
Dräger X-am 7000	yes	yes	1 year	> 2 years	_

MARKET SEGMENTS

Power plants, district heating plants

TECHNICAL SPECIFICATIONS

Detection limit:	<u>1 ppm</u>			
Resolution:	0.5 ppm			
Measurement range:	0 to 200 ppm NO (nitrogen monoxide)			
Response time:	≤ 30 seconds (t ₉₀)			
Precision				
Sensitivity:	≤ ± 3% of measured value			
Long-term drift, at 20°C (68°F)				
Zero point:	≤ ± 1 ppm/month			
Sensitivity:	≤ ± 3% of measured value/month			
Warm-up time:	≤ 18 hours			
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:	≤ ± 0.01 ppm/K			
Sensitivity:	≤ ± 0.2% of measured value/K			
Influence of humidity				
Zero point:	≤ ± 0.01 ppm/% RH			
Sensitivity:	≤ ± 0.05% of measured value/% RH			
Test gas:	approx. 1 to 200 ppm NO test gas			

SPECIAL CHARACTERISTICS

This sensor enables a selective measurement of NO. It also offers a very fast response time and excellent linearity across its entire measurement range.

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 NO. To be sure, please check if gas mixtures are present.

RELEVANT CROSS-SENSITIVITIES

Gas/vapor	Chem. symbol	Concentration	Display in ppm NO	
Acetone	CH₃COCH₃	1,000 ppm	No effect	
Acetylene	C ₂ H ₂	0.8 Vol. %	≤ 2	
Ammonia	NH ₃	500 ppm	No effect	
Benzene	C ₆ H ₆	0.6 Vol. %	No effect	
Carbon dioxide	CO ₂	5 Vol. %	No effect	
Carbon monoxide	СО	2,000 ppm	No effect	
Chlorine	Cl ₂	5 ppm	No effect	
Ethanol	C ₂ H ₅ OH	250 ppm	No effect	
Ethene	C ₂ H ₄	0.1 Vol. %	No effect	
Hydrogen	H ₂	5 Vol. %	≤ 2	
Hydrogen chloride	HCI	40 ppm	No effect	
Hydrogen cyanide	HCN	50 ppm	No effect	
Hydrogen sulfide	H ₂ S	5 ppm	≤ 5	
Methane	CH ₄	2 Vol. %	No effect	
Nitrogen dioxide	NO ₂	20 ppm	No effect	
Phosphine	PH ₃	2 ppm	≤ 2	
Propane	C ₃ H ₈	1 Vol. %	No effect	
Sulfur dioxide	SO ₂	10 ppm	≤ 2	
Tetrachloroethylene	CCl ₂ CCl ₂	1,000 ppm	No effect	
Toluene	C ₆ H ₅ CH ₃	0.6 Vol. %	No effect	
Trichloroethylene	CHCICCI ₂	1,000 ppm	No effect	