230 | DrägerSensor® XXS

# DrägerSensor® XXS NO

Order no. 68 11 545

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 5600	no	yes	1 year	> 2 years	no

## **MARKET SEGMENTS**

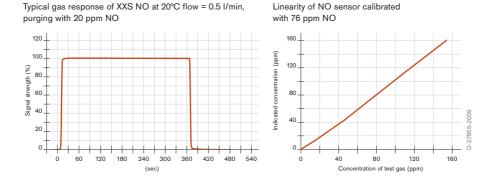
Power and district heating plants, chemical industry.

#### **TECHNICAL SPECIFICATIONS**

Detection limit:	0.3 ppm			
Resolution:	0.1 ppm			
Measurement range:	0 to 200 ppm NO (nitrogen monoxide)			
Response time:	≤ 10 seconds (T <sub>90</sub> )			
Measurement accuracy	-			
Sensitivity:	≤ ± 3% of measured value			
Long-term drift, at 20°C (68°F)				
Zero point:	≤ ± 0.3 ppm/year			
Sensitivity:	≤ ± 2% of measured value/month			
Warm-up time:	≤ 20 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:	≤ ± 0.02 ppm/K			
Sensitivity:	≤ ± 0.3% of measured value/K			
Influence of humidity				
Zero point:	No effect			
Sensitivity:	≤ ± 0.05% of measured value/% RH			
Test gas:	approx. 3 to 175 ppm NO			

## SPECIAL CHARACTERISTICS

This sensor enables a selective measurement of NO. NO<sub>2</sub> concentrations < 20 ppm have not effects. 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	CH <sub>3</sub> COCH <sub>3</sub>	1,000 ppm	No effect	
Ammonia	NH <sub>3</sub>	500 ppm	No effect	
Benzene	C <sub>6</sub> H <sub>6</sub>	0.6 Vol%	No effect	
Carbon dioxide	CO <sub>2</sub>	5 Vol%	No effect	
Carbon monoxide	CO	2,000 ppm	No effect	
Chlorine	Cl <sub>2</sub>	5 ppm	No effect	
Ethanol	C <sub>2</sub> H <sub>5</sub> OH	250 ppm	No effect	
Ethene	C <sub>2</sub> H <sub>4</sub>	0.1 Vol%	No effect	
Ethine	C <sub>2</sub> H <sub>2</sub>	0.8 Vol%	No effect	
Hydrogen	H <sub>2</sub>	1.5 Vol%	No effect	
Hydrogen chloride	HCI	40 ppm	No effect	
Hydrogen cyanide	HCN	50 ppm	No effect	
Hydrogen sulfide	H <sub>2</sub> S	5 ppm	1	
Isobutylene	(CH <sub>3</sub> ) <sub>2</sub> CCH <sub>2</sub>	100 ppm	No effect	
Methane	CH <sub>4</sub>	2 Vol%	No effect	
Nitrogen dioxide	NO <sub>2</sub>	20 ppm	No effect	
Phosphine	PH <sub>3</sub>	2 ppm	No effect	
Propane	C <sub>3</sub> H <sub>8</sub>	1 Vol%	No effect	
Sulphur dioxide	SO <sub>2</sub>	10 ppm	No effect	
Tetrachloroethylene	CCl <sub>2</sub> CCl <sub>2</sub>	1,000 ppm	No effect	
Toluene	C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub>	0.6 Vol%	No effect	
Trichloroethylene	CHCICCI <sub>2</sub>	1,000 ppm	No effect	