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

MARKET SEGMENTS

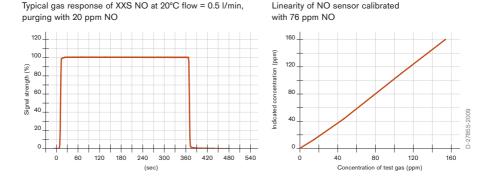
Power and district heating plants, chemical industry.

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 ₉₀)		
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. NO₂ 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

Chem. symbol	Concentration	Display in ppm NO	
CH ₃ COCH ₃	1,000 ppm	No effect	
C ₂ H ₂	0.8 Vol%	No effect	
NH ₃	500 ppm	No effect	
C ₆ H ₆	0.6 Vol%	No effect	
CO ₂	5 Vol%	No effect	
СО	2,000 ppm	No effect	
Cl ₂	5 ppm	No effect	
C ₂ H ₅ OH	250 ppm	No effect	
C ₂ H ₄	0.1 Vol%	No effect	
H ₂	1.5 Vol%	No effect	
HCI	40 ppm	No effect	
HCN	50 ppm	No effect	
H ₂ S	5 ppm	1	
(CH ₃) ₂ CCH ₂	100 ppm	No effect	
CH ₄	2 Vol%	No effect	
NO ₂	20 ppm	No effect	
PH ₃	2 ppm	No effect	
C ₃ H ₈	1 Vol%	No effect	
SO ₂	10 ppm	No effect	
CCl ₂ CCl ₂	1,000 ppm	No effect	
C ₆ H ₅ CH ₃	0.6 Vol%	No effect	
CHCICCI ₂	1,000 ppm	No effect	
	CH ₃ COCH ₃ C ₂ H ₂ NH ₃ C ₆ H ₆ CO ₂ CO Cl ₂ C ₂ H ₅ OH C ₂ H ₄ H ₂ HCI HCN H ₂ S (CH ₃) ₂ CCH ₂ CH ₄ NO ₂ PH ₃ C ₃ H ₈ SO ₂ CCl ₂ CCl ₂ CG ₆ H ₅ CH ₃	CH3COCH3 1,000 ppm C2H2 0.8 Vol% NH3 500 ppm C6H6 0.6 Vol% CO2 5 Vol% CO 2,000 ppm Cl2 5 ppm C2H5OH 250 ppm C2H4 0.1 Vol% HCI 40 ppm HCN 50 ppm H2S 5 ppm (CH3)2CCH2 100 ppm CH4 2 Vol% NO2 20 ppm PH3 2 ppm C3H8 1 Vol% SO2 10 ppm CCI2 CCI2 1,000 ppm C6H5CH3 0.6 Vol%	