Visit: www.thesafetyequipmentstore.com Or Email: besafe@thesafetyequipmentstore.com for Sales & Service. 254 | DrägerSensor® XXS

DrägerSensor® XXS Ozone

Order no. 68 11 540

Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life	Selective filter
Dräger X-am 5000	no	yes	1 year	> 2 years	no
Dräger X-am 5600	no	yes	1 year	> 2 years	no

MARKET SEGMENTS

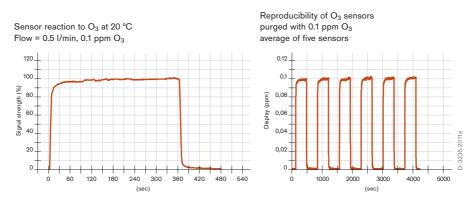
Ozone generator manufacturer, coal-fired power plants, water treatment (drinking and industrial water), food and beverage industry, swimming pools, pulp and paper industry, pharmaceutical and cosmetics industry

TECHNICAL SPECIFICATIONS

Detection limit:	0,02 ppm			
Resolution:	0,01 ppm			
Measurement range:	0 to 10 ppm O ₃ (Ozon)			
Response time:	\leq 10 seconds (T ₅₀)			
Measurement accuracy				
Sensitivity:	\leq ± 3 % of measured value			
Long-term drift, at 20°C (68°F)/				
50 % RH				
Zero point:	≤ ± 0.02 ppm/year			
Sensitivity:	\leq ± 2 % of measured value/month			
Warm-up time:	≤ 120 minutes			
Ambient conditions				
Temperature:	(-20 to 50) °C (-4 to 122) °F			
Humidity:	(15 to 80) % RH			
Pressure:	(700 to 1300) hPa			
Influence of temperature	·			
Zero point:	No effect			
Sensitivity:	≤ ± 0.5 % of measured value/K			
Influence of humidity				
Zero point:	No effect			
Sensitivity:	≤ ± 0.1 % of measured value/% RH			
Test gas:	approx. 0.5 to 9 ppm O ₃			
	5 ppm NO ₂			
	The calibration and function test can be conducted both with the			
	target gas O_3 , as well as with the replacement test gas NO_2 .			
	Surrogate calibration with NO ₂ can lead to an additional measuring			
	error of up to \pm 30 %. When conducting a function test with 5 ppm			
	NO_2 an indication of 2.8 ±0.8 ppm O_3 is expected.			

SPECIAL CHARACTERISTICS

A fast response time and excellent repeatability are just two examples of this sensor's special characteristics. With a detection limit of 0.02 ppm and a resolution of 0.01 ppm, it is also optimally suited for limit value monitoring.



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

RELEVANT CROSS-SENSITIVITIES

Gas/vapor	Chem. symbol	Concentration	Display in ppm Ozone
Ammonia	NH ₃	30 ppm	no effect
Arsine	AsH ₃	0,5 ppm	no effect
Carbon dioxide	CO ₂	5 Vol%	no effect
Carbon monoxide	CO	2000 ppm	no effect
Chlorine	Cl ₂	1 ppm	≤ 0.8
Chlorine dioxide	CIO ₂	1 ppm	≤ 0.8
Ethane	C ₃ H ₆	0,1 Vol%	no effect
Ethanol	C ₂ H ₅ OH	250 ppm	no effect
Ethine	C_2H_2	100 ppm	no effect
Hydrazine	N_2H_4	1 ppm	no effect
Hydrogen	H ₂	0,1 Vol%	no effect
Hydrogen chloride	HCI	40 ppm	no effect
Hydrogen cyanide	HCN	50 ppm	no effect
Hydrogen sulfide	H ₂ S	1 ppm	≤ 0.02 (-)
Isobutylene	(CH ₃) ₂ CCH ₂	100 ppm	≤ 0.04
Methane	CH ₄	5 Vol%	no effect
Nitrogen dioxide	NO ₂	1 ppm	≈ 0.55
Nitrogen monoxide	NO	30 ppm	no effect
Phosphine	PH ₃	0,5 ppm	no effect
Propane	C ₃ H ₈	1 Vol%	no effect
Sulfur dioxide	SO ₂	1 ppm	≤ 0.06 (-)

(-) Indicates negative deviation