Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life	Selective filter
Dräger X-am 2500/5000	no	yes	2 years	> 5 years	no
Dräger X-am 5600	no	yes	2 years	> 5 years	no
Dräger X-am 3500/8000	no	yes	2 years	> 5 years	no

## MARKET SEGMENTS

Sewage, mining and tunneling, fumigation, biogas, hazmat and fire services, industrial gases

## TECHNICAL DATA

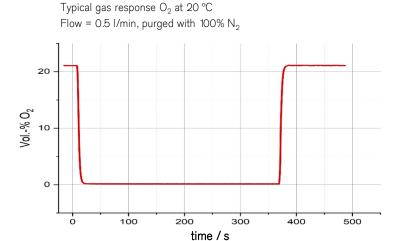
Detection limit:	0.1 Vol%			
Resolution:	0.1 Vol%			
Measurement range:	0 to 30 Vol% Q <sub>2</sub> (oxygen)			
Response time:	≤ 13 Sekunden (t₀)			
Precision:				
Sensitivity:	$\leq$ ± 1 % of measured value for 0 to 25 Vol%			
Long-term drift, at 20 °C (68 °I	F)			
Zero point:	≤ ± 0.5 Vol%/year			
Sensitivity:	≤ ± 1 % of measured value/year			
Warm-up time:	≤ 15 minutes			
Ambient conditions				
Temperature:	(-40 to 50) °C (-40 to 122) °F			
Humidity:	(10 to 90) % r. h.			
Pressure:	700 to 1300 hPa			
Influence of temperature				
Zero point:	≤ ± 0.2 Vol%			
Sensitivity:	≤ ± 2 % of measured value			
Influence of humidity				
Zero point:	No effect			
Sensitivity:	≤ ± 0.1 % of measured value/% r. h.			
Test gas:	approx. 12 to 20 Vol% Q			

## SPECIAL CHARACTERISTICS

DrägerSensor® XXS oxygen sensors are lead-free, thus complying with Directive 2002/95/EG (RoHS).

Due to the internal filter, this sensor is less sensitive to influences caused by outgassing of plastics.

The extremely fast response time of less than 13 seconds provides a reliable warning of oxygen deficiency or excess.



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  $O_2$ . To be sure, please check if gas mixtures are present.

## RELEVANT CROSS-SENSITIVITIES

Gas / vapor	Chem.	Concentration	Display in Vol% O <sub>2</sub>		
	symbol				
Acetylene	$C_2H_2$	1.0 Vol%	≤ 0,5 <sup>(-)</sup>		
Ammonia	NH <sub>3</sub>	500 ppm	No effect		
Carbon dioxide	CO <sub>2</sub>	10 Vol%	≤ 0.4 <sup>(-)</sup>		
Carbon monoxide	CO	0.5 Vol%	No effect		
Chlorine	Cl <sub>2</sub>	10 ppm	No effect		
Ethane	C <sub>2</sub> H <sub>6</sub>	1.0 Vol%	≤ 2 <sup>(-)</sup>		
Ethanol	C₂H₅OH	250 ppm	No effect		
Ethene	$C_2H_4$	2.0 Vol%	≤ 2 <sup>(-)</sup>		
Helium	He	20 Vol%	≤ 3*		
Hydrogen	$H_2$	1.6 Vol%	≤ 2.5 <sup>(-)</sup>		
Hydrogen chloride	HCI	40 ppm	No effect		
Hydrogen cyanide	HCN	50 ppm	No effect		
Hydrogen sulfide	H <sub>2</sub> S	100 ppm	No effect		
Isobutylene	i-C <sub>4</sub> H <sub>8</sub>	100 ppm	No effect		
Methane	CH <sub>4</sub>	10 Vol%	No effect		
Nitrogen dioxide	NO <sub>2</sub>	20 ppm	No effect		
Nitrogen monoxide	NO	30 ppm	No effect		
Propane	$C_3H_8$	2 Vol%	No effect		
Sulfur dioxide	SO <sub>2</sub>	20 ppm	No effect		

<sup>(-)</sup> indicates negative deviation



<sup>\*</sup> nonlinear false positive display value