DrägerSensor® XXS O₂ 100

Order no. 68 12 385

Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life	Selective filter
Dräger X-am 5000	no	yes	1 year	> 3 years	no
Dräger X-am 5600	no	yes	1 year	> 3 years	no
Dräger X-am 8000	no	yes	1 year	> 3 years	no

MARKET SEGMENTS

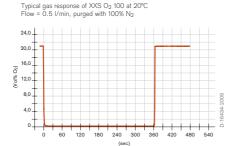
Gas suppliers, oxygen cylinders (diving), submarines, nuclear power plants

TECHNICAL SPECIFICATIONS

Detection limit:	0.5 Vol%			
Resolution:	0.5 Vol%			
Measurement range:	0 to 100 Vol% O ₂ (oxygen)			
Response time:	≤ 5 seconds (t ₉₀)			
Precision				
Sensitivity:	≤ ± 1% of measured value			
Long-term drift, at 20°C (68°F)				
Zero point:	≤ ± 0.5 Vol%/year			
Sensitivity:	≤ ± 3% of measured value/year			
Warm-up time:	≤ 15 minutes			
Ambient conditions				
Temperature:	(0 to 45)°C (32 to 113)°F			
Humidity:	(10 to 90)% RH			
Pressure:	(700 to 1,100) hPa			
Influence of temperature				
Zero point:	No effect			
Sensitivity:	≤ ± 5% of measured value			
Influence of humidity				
Zero point:	No effect			
Sensitivity:	≤ ± 0.01% of measured value/% RH			
Test gas:	approx. 10 to 100 Vol% O ₂ in N ₂			

SPECIAL CHARACTERISTICS

DrägerSensor® XXS oxygen sensors are lead-free, thus complying with Directive 2002/95/EC (RoHS). The sensor's measurement principle is based on the partial pressure measurement of oxygen. Therefore, this sensor is suitable for the oxygen monitoring during inertisation processes. The inert gas can be nitrogen, carbon dioxide, argon or helium.



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 DRÄGERSENSOR® XXS O2 100

Gas/vapor	Chem. symbol	Concentration	Display in Vol% O ₂	
Carbon dioxide	CO ₂	5 vol%	No effect	
Chlorine	Cl ₂	20 ppm	No effect	
Helium	He	50 vol%	≤ 1 ⁽⁻⁾	
Hydrogen chloride	HCI	40 ppm	No effect	
Hydrogen sulfide	H ₂ S	100 ppm	No effect	
Isobutylene	(CH ₃) ₂ CCH ₂	100 ppm	No effect	
Methane	CH ₄	10 vol%	No effect	
Nitrogen dioxide	NO ₂	50 ppm	No effect	
Nitrogen monoxide	NO	0.05 vol%	≤ 1 ⁽⁻⁾	
Propane	C ₃ H ₈	2 vol%	No effect	
Sulphur dioxide	SO ₂	50 ppm	No effect	