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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

MARKET SEGMENTS

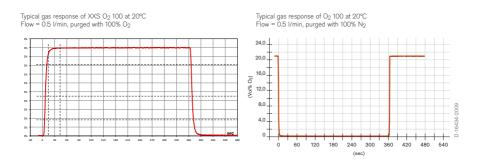
Gas suppliers, oxygen cylinders (diving), submarines, nuclear power plants

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)		
Measurement accuracy	-		
Sensitivity:	\leq ± 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:	≤ 1 hour		
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:	\leq ± 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). Because they are non-consuming sensors, they have much longer life times than sensors that are consuming. An extremely fast response time of less than ten seconds produces a reliable warning of any lack or excess of oxygen.



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 O₂. 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%	≤ 1 ⁽⁻⁾	
Chlorine	Cl ₂	20 ppm	No effect	
Helium	He	50 vol%	≤ 1 ⁽⁻⁾	
Hydrogen chloride HCl		40 ppm	No effect	
Hydrogen sulphide	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	

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(-) Indicates negative deviation