DrägerSensor® XXS O₂ DrägerSensor® XXS E O₂

Order no. 68 10 881 68 12 211

Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life	Selective filter
Dräger Pac 6000/	no	yes	3 years	> 5 years	no
6500					
Dräger X-am 2500	no	yes	3 years	> 5 years	no
Dräger X-am 2800*	no	yes	3 years	> 5 years	no
Dräger X-am 5000	no	yes	3/5 years	> 5 years	no
Dräger X-am 5600	no	yes	3/5 years	> 5 years	no
Dräger X-am 8000	no	yes	3/5 years	> 5 years	no

MARKET SEGMENTS

Sewage, mining and tunneling, fumigation, biogas, hazmat, industrial gases.

TECHNICAL SPECIFICATIONS

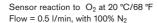
TECHNICAL OF ECH TOATHO				
Detection limit:	0.1 Vol%			
Resolution:	0.1 Vol%			
Measurement range:	0 to 25 Vol% O ₂ (oxygen)			
Response time:	≤ 10 seconds (t ₉₀)			
Precision				
Sensitivity:	≤ ± 1% of measured value			
Long-term drift, at 20°C (68°F)				
Zero point:	≤ ± 0.5 Vol%/year			
Sensitivity:	≤ ± 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)% RH			
Pressure:	(700 to 1,300) 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/% RH			
Test gas:	approx. 12 to 20 Vol% O ₂ in N ₂			

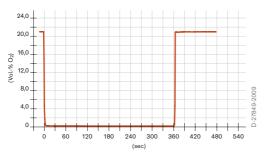
The sensor cannot be used to measure oxygen in the presence of helium. For oxygen monitoring during inerting processes, see DrägerSensor XXS O2 100 (SN 68 12 385).

 $^{^{\}star}$ Dräger X-am 2800 does not support the DrägerSensor XXS E O2 (6812211).

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

RELEVANT CROSS-SENSITIVITIES DRÄGERSENSOR® XXS O2 AND XXS E O2

Gas/vapor	Chem. symbol	Concentration	Display in Vol% O ₂	
Acetylene C ₂ H ₂		1 Vol%	≤ 0.5 ⁽⁻⁾	
Ammonia NH ₃		500 ppm	No effect	
Carbon dioxide	CO ₂	10 Vol%	≤ 0.4 ⁽⁻⁾	
Carbon monoxide	СО	0.5 Vol%	No effect	
Chlorine Cl ₂		10 ppm	No effect	
Ethane C ₂ H ₆		1.0 Vol%	≤ 0.2 ⁽⁻⁾	
Ethanol C ₂ H ₅ OH		250 ppm	No effect	
Ethene C ₂ H ₄		2 Vol%	≤ 2 ⁽⁻⁾	
Helium	He	20 Vol%	≤ 3*	
Hydrogen H_2		1.6 Vol%	≤ 2.5 ⁽⁻⁾	
Hydrogen chloride	HCI	40 ppm	No effect	
Hydrogen cyanide HCN		50 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		20 ppm	No effect	
Nitrogen monoxide NO		30 ppm	No effect	
Propane C ₃ H ₈		2 Vol%	No effect	
Sulfur dioxide	SO ₂	20 ppm	No effect	

⁽⁻⁾ Indicates negative deviation

^{*} non-linear false positive display value