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 3500	no	yes	3 years	> 5 years	no
Dräger Pac 5500	no	yes	3 years	> 5 years	no
Dräger Pac 7000	no	yes	3 years	> 5 years	no
Dräger Pac 7000 5Y	no	yes	5 years	> 5 years	no
Dräger X-am 2500	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

MARKET SEGMENTS

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

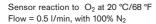
TECHNICAL SPECIFICATIONS

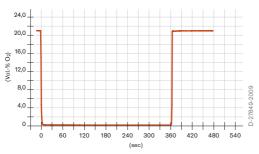
Detection limit:	0.1 Vol%		
Resolution:	0.1 Vol%		
Measurement range:	0 to 25 Vol% O ₂ (oxygen)		
Response time:	≤ 10 seconds (T ₉₀)		
Measurement accuracy			
Sensitivity:	≤ ± 1% of measured value		
Long-term drift, at 20°C (68°F)			
Zero point:	≤ ± 0.5 Vol%/year		
Sensitivity:	≤ ± 1% of measured value/year		
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		

Visit: www.thesafetyequipmentstore.com Or Email: besafe@thesafetyequipmentstore.com for Sales & Service.

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

Gas/vapor Chem. symbol		Concentration	Display in Vol% O ₂
Ammonia	monia NH ₃		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 ⁽⁻⁾
Ethine	C ₂ H ₂	1 Vol%	≤ 0.5 ⁽⁻⁾
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		No effect
litrogen monoxide NO		30 ppm	
Propane	C ₃ H ₈	2 Vol%	No effect
Sulfur dioxide	SO ₂	20 ppm	No effect

(-) Indicates negative deviation

RELEVANT CROSS-SENSITIVITIES DRÄGERSENSOR® XXS E O2

Gas/vapor Chem. symbol		Concentration	Display in Vol% O ₂
Ammonia	NH ₃	500 ppm	No effect
Carbon dioxide	CO ₂	10 Vol%	≤ 0.4(-)
Carbon monoxide	CO	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 ⁽⁻⁾
Ethine	C ₂ H ₂	1 Vol%	≤ 0.5 ⁽⁻⁾ ≤ 2.5 ⁽⁻⁾
Hydrogen	H ₂	1.6 Vol%	
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 No effect
Nitrogen dioxide	NO ₂	20 ppm	
Nitrogen monoxide	NO	30 ppm	
Propane	C ₃ H ₈	2 Vol%	No effect
Sulfur dioxide	SO ₂	20 ppm	No effect







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