DrägerSensor® XXS CO₂

Order no. 68 10 889

Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life	Selective filter
Dräger Pac 8000	no	yes	1 year	> 1.25 years	no
Dräger X-am 5000	no	yes	1 year	> 1.25 years	no
Dräger X-am 5600	no	yes	1 year	> 1.25 years	no
Dräger X-am 8000	no	yes	1 year	> 1.25 years	no

MARKET SEGMENTS

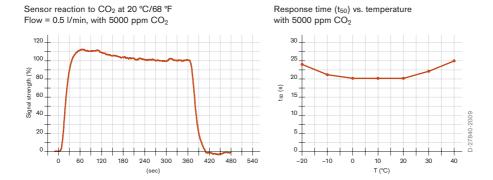
Waste disposal, Food and beverage (breweries), metal processing, petrochemical, fertilizer production, sewage, police, customs and rescue services, mining and tunneling, shipping and transport, power generation.

TECHNICAL SPECIFICATIONS

Detection limit:	0.3 Vol%			
Resolution:	0.1 Vol%			
Measurement range:	0 to 5 Vol% CO ₂ (carbon dioxide)			
Response time:	≤ 30 seconds (t ₅₀)			
Precision				
Sensitivity:	≤ ± 20% of measured value			
Long-term drift, at 20°C (68°F)				
Zero point:	≤ ± 0.2 Vol%/year			
Sensitivity:	≤ ± 15% of measured value/month			
Warm-up time:	≤ 12 hours			
Ambient conditions				
Temperature:	(-20 to 40)°C (-4 to 104)°F			
Humidity:	(10 to 90)% RH			
Pressure:	(700 to 1,300) hPa			
Influence of temperature				
Zero point:	≤ ± 0.01 Vol%/K			
Sensitivity:	≤ ± 2% of measured value/K			
Influence of humidity				
Zero point:	No effect			
Sensitivity:	≤ ± 0.1% of measured value/% RH			
Test gas:	1 to 4 Vol% CO ₂			

SPECIAL CHARACTERISTICS

This sensor is highly sensitive (see cross-sensitivity list) and offers an economical alternative to infrared sensors if you need to warn against CO_2 concentrations in the ambient air.



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 CO₂. To be sure, please check if gas mixtures are present.

RELEVANT CROSS-SENSITIVITIES

Gas/vapor	Chem. symbol	Concentration	Display in ppm CO ₂	
Acetylene	C ₂ H ₂	100 ppm	No effect	
Ammonia	NH ₃	50 ppm	No effect	
Carbon monoxide	CO	1,000 ppm	No effect	
Chlorine	Cl ₂	10 ppm	No effect	
Ethanol	C ₂ H ₅ OH	250 ppm	No effect	
Hydrogen	H ₂	1.6 Vol%	No effect	
Hydrogen chloride	HCI	20 ppm	No effect	
Hydrogen cyanide	HCN	60 ppm	No effect	
Hydrogen sulfide	H ₂ S	20 ppm	No effect	
Isobutylene	(CH ₃) ₂ CCH ₂	100 ppm	No effect	
Nitrogen dioxide	NO ₂	20 ppm	No effect	
Nitrogen monoxide	NO	20 ppm	No effect	
Methane	CH ₄	0.9 Vol%	No effect	
Ozone	O ₃	1.5 ppm	No effect	
Phosphine PH ₃		5 ppm	No effect	
Sulfur dioxide SO ₂		20 ppm	No effect	