

DrägerSensor® XS EC CO₂

Order no. 68 09 175

Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life	Selective filter
Dräger X-am 7000	yes	yes	1 year	> 1.25 years	–

MARKET SEGMENTS

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

TECHNICAL SPECIFICATIONS

Detection limit:	0.2 Vol. %
Resolution:	0.1 Vol. %
Measurement range:	0 to 5 Vol. % CO ₂ (carbon dioxide)
Response time:	≤ 45 seconds (T ₉₀)
Measurement accuracy	
Sensitivity:	≤ ± 20% of measured value
Long-term drift, at 20°C (68°F)	
Zero point:	≤ ± 0.1 Vol. %/month
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:	≤ ± 0.005 Vol. %/% RH
Sensitivity:	≤ ± 0.1% of measured value/% RH
Test gas:	approx. 0.5 to 4 Vol. % CO ₂ test gas

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

RELEVANT CROSS-SENSITIVITIES

Gas/vapor	Chem. symbol	Concentration	Display
Ammonia	NH ₃	50 ppm	≤ 0.1 ⁽⁻⁾
Boron trichloride	BCl ₃	15 ppm	No effect
Carbon monoxide	CO	100 ppm	No effect
Chlorine	Cl ₂	5 ppm	≤ 0.1 ⁽⁻⁾
Ethanol	C ₂ H ₅ OH	130 ppm	≤ 0.1 ⁽⁻⁾
Ethene	C ₂ H ₄	50 ppm	≤ 0.1 ⁽⁻⁾
Hydrogen	H ₂	1,000 ppm	≤ 0.1 ⁽⁻⁾
Hydrogen chloride	HCl	20 ppm	≤ 0.1 ⁽⁻⁾
Hydrogen phosphide	PH ₃	5 ppm	≤ 0.1 ⁽⁻⁾
Hydrogen sulfide	H ₂ S	20 ppm	≤ 0.1 ⁽⁻⁾
Methane	CH ₄	30 Vol. %	No effect
Methanol	CH ₃ OH	200 ppm	≤ 0.1 ⁽⁻⁾
Nitrogen dioxide	NO ₂	20 ppm	≤ 0.1 ⁽⁻⁾
Nitrogen monoxide	NO	20 ppm	≤ 0.1 ⁽⁻⁾
Sulfur dioxide	SO ₂	20 ppm	≤ 0.1 ⁽⁻⁾

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