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204 | DrägerSensor® XXS

# DrägerSensor® XXS CO<sub>2</sub>

## Order no. 68 10 889

Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life	Selective filter
Dräger Pac 7000	no	yes	1 year	> 1.25 years	no
Dräger X-am 5000	no	yes	1 year	> 1.25 years	no
Dräger X-am 5000	no	yes	1 year	> 1.25 years	no

### MARKET SEGMENTS

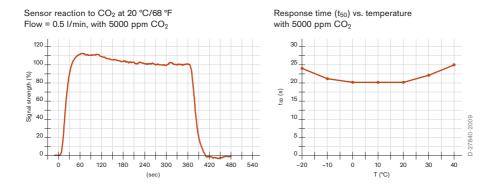
Waste disposal, Food and beverage (breweries), metal processing, petrochemical, fertilizer production, sewage, police, customs and rescue services, mining and tunneling, shipping and transport, power generation.

# **TECHNICAL SPECIFICATIONS**

Detection limit:	0.3 Vol%				
Resolution:	0.1 Vol%				
Measurement range:	0 to 5 Vol% CO <sub>2</sub> (carbon dioxide)				
Response time:	≤ 30 seconds (T <sub>50</sub> )				
Measurement accuracy	-				
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:	$\leq \pm 2\%$ of measured value				
Influence of humidity	-				
Zero point:	No effect				
Sensitivity:	≤ ± 0.1% of measured value/% RH				
Test gas:	1 to 4 Vol% CO <sub>2</sub>				

### SPECIAL CHARACTERISTICS

This	sensor	is	highly	sensitive	(see	cross-sensitivity	list)	and	offers	an	economical
altern	ative to in	nfrar	ed sens	ors if you ne	eed to	warn against CO <sub>2</sub> (	concer	ntratior	ns in the	amb	ient 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 CO<sub>2</sub>. To be sure, please check if gas mixtures are present.

Gas/vapor	Chem. symbol	Concentration	Display in ppm CO <sub>2</sub>		
Ammonia	NH <sub>3</sub>	50 ppm	No effect		
Carbon monoxide	CO	1,000 ppm	No effect		
Chlorine	Cl <sub>2</sub>	10 ppm	No effect		
Ethanol	C <sub>2</sub> H <sub>5</sub> OH	250 ppm	No effect		
Ethine	$C_2H_2$	100 ppm	No effect		
Hydrogen	H <sub>2</sub>	1.6 Vol%	No effect		
Hydrogen chloride	HCI	20 ppm	No effect		
Hydrogen cyanide	HCN	60 ppm	No effect		
Hydrogen sulfide	H <sub>2</sub> S	20 ppm	No effect		
Isobutylene	(CH <sub>3</sub> ) <sub>2</sub> CCH <sub>2</sub>	100 ppm	No effect		
Nitrogen dioxide	NO <sub>2</sub>	20 ppm	No effect		
Nitrogen monoxide	NO	20 ppm	No effect		
Methane	CH <sub>4</sub>	0.9 Vol%	No effect		
Ozone	O <sub>3</sub>	1.5 ppm	No effect		
Phosphine PH <sub>3</sub>		5 ppm	No effect		
Sulfur dioxide	SO <sub>2</sub>	20 ppm	No effect		

## **RELEVANT CROSS-SENSITIVITIES**

(-) Indicates negative deviation