DrägerSensor® IR CO₂

Order no. 68 12 190

Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life	Selective filter
Dräger X-am 5600	_	yes	5 years	> 5 years	_
Dräger X-am 8000	_	yes	5 years	> 5 years	

MARKET SEGMENTS

Telecommunications, shipping, sewage, gas supply companies, refineries, chemical industry, mining, landfills, biogas plants, tunneling.

TECHNICAL SPECIFICATIONS

Detection limit:	0.01 Vol% CO ₂		
Resolution:	0.01 Vol% CO ₂ or 50 ppm CO ₂ (dependent on measuring range)		
Measurement range:	0 to 5 Vol% CO ₂		
Ambient conditions			
Temperature:	(-20 to 50)°C (-4 to 122)°F		
Humidity:	(10 to 95)% RH		
Pressure:	(700 to 1,300) hPa		
Warm-up time:	≤ 5 minutes		

FOR THE MEASUREMENT RANGE 0 TO 5 VOL.-% CO2

Response time:		X-am 5600	X-am 8000		
	Diffusion mode (T ₅₀)	≤ 15 seconds	≤ 12 seconds		
	Diffusion mode (T ₉₀)	≤ 31 seconds	≤ 50 seconds		
	Pump mode (T ₅₀)	≤ 10 seconds	≤ 10 seconds		
	Pump mode (T ₉₀)	≤ 15 seconds	≤ 15 seconds		
Measurement accuracy					
Sensitivity:	≤ ± 0.08 Vol% CO ₂ at 2.5 Vol%				
Linearity error, typical:	≤ ± 3.5% of measured value or ≤ ± 1.5% of the end of measurement				
	range (whichever is higher)				
Long-term drift					
Zero point:	≤ ± 0.005 Vol% CO ₂ /month				
Sensitivity:	≤ ± 0.1 Vol% CO ₂ /6 months at 2.5 Vol% CO ₂				
Influence of temperature					
Zero point:	≤ ± 0.0002 Vol% CO ₂ /K at (−20 to 50)°C (−4 to 122)°F				
Sensitivity:	≤ ± 0.0015 Vol% CO ₂ /K at 2.5 Vol% and				
	(-20 to 50)°C (-4 to 122)°F				
Effect of humidity, at 40°C (104 °F)					
(0 to 95% RH, non-condensing)					
Zero point:	≤ ± 0.0001 Vol% CO ₂ /% RH				
Test gas:	2.5 Vol% CO ₂				

SPECIAL CHARACTERISTICS

With its extremely low drift and low detection limit, this sensor is ideal for measuring carbon dioxide inside closed spaces, and for monitoring CO_2 in the workplace. As with all other IR sensors, it requires little maintenance and has a high level of long-term stability.



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