

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	–

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 120)°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:	Diffusion mode ≤ 15 seconds (T ₅₀) Diffusion mode ≤ 31 seconds (T ₉₀) Pump mode ≤ 10 seconds (T ₅₀) Pump mode ≤ 15 seconds (T ₉₀)
Measurement accuracy	
Sensitivity:	≤ ± 0.08 Vol.-% CO ₂ at 2.5 Vol.-%
Linearity error, typical:	≤ ± 10% of measured value or ≤ ± 1.5% of the highest figure in the set measuring range (whichever is higher)
Long-term drift	
Zero point:	≤ ± 0.005 Vol.-% CO ₂ /month
Sensitivity:	≤ ± 0.1 Vol.-% CO ₂ /6 months
Influence of temperature	
Zero point:	≤ ± 0.0002 Vol.-% CO ₂ /K at (–20 to 50)°C (–4 to 120)°F
Sensitivity:	≤ ± 0.0015 Vol.-% CO ₂ /K at 2.5 Vol.-% and (–20 to 50)°C (–4 to 120)°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 CO₂ 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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