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DrägerSensor® Smart IR CO ₂ HC Order no. 68 10 599						
Used in	Plug & Play	Replaceable	Guaranty	Expected sensor life	Selective filter	
Dräger X-am 7000	yes	yes	5 years	> 5 years	-	

MARKET SEGMENTS

Biogas, process gas

TECHNICAL SPECIFICATIONS

Detection limit:	0.4 Vol%
Resolution:	0.2 Vol% CO ₂
Measurement range:	0 to 100 Vol% CO ₂
Ambient conditions	
Temperature:	(-20 to 60)°C (-4 to 140)°F
Humidity:	(10 to 95)% RH
Pressure:	(700 to 1,300) hPa
Warm-up time:	≤ 4 minutes

FOR THE MEASUREMENT RANGE 0 TO 100 VOL.-% CO2

Response time:	Diffusion mode ≤ 20 seconds (T ₅₀)				
	Diffusion mode \leq 65 seconds (T ₉₀)				
	Pump mode \leq 20 seconds (T ₅₀)				
	Pump mode ≤ 65 seconds (T ₉₀)				
Measurement accuracy					
Sensitivity:	≤ ± 2.0 Vol% CO ₂ at 50 Vol%				
Linearity error, typical:	$\leq \pm 1$ Vol% CO ₂ or $\leq \pm 5\%$ of measured value (whichever is higher)				
Long-term drift					
Zero point:	≤ ± 0.2 Vol% CO ₂ /month				
Sensitivity:	≤ ± 3% of measured value/month at 50 Vol%				
Influence of temperature					
Zero point:	≤ ± 0.004 Vol% CO ₂ /K at (−20 to 60)°C (−4 to 140)°F				
Sensitivity:	\leq ± 0.4% of measured value/K at 50 Vol% and (-20 to 60)°C				
	(-4 to 140)°F				
Effect of humidity, at 40°C (104 °F)					
(0 to 95% RH, non-condensing)					
Zero point:	≤ ± 0.5 Vol% CO ₂				
Test gas:	50 Vol% CO ₂				

SPECIAL CHARACTERISTICS

This sensor is especially suitable if you need to measure high concentrations of CO_2 in process gas, for example. CO_2 concentrations of up to 100 Vol.-% can be detected reliably with this sensor. Other qualities that distinguish this sensor are low cross-sensitivities, long-term stability, and minimal maintenance.