## DrägerSensor® Smart IR CO<sub>2</sub> 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 SEGMI	ENTS				
Biogas, process ga	as				
TECHNICAL CD	FOIFICATION	16			
TECHNICAL SPECIFICATIO  Detection limit:		0.4 Vol%			
Resolution:		0.2 Vol% CO <sub>2</sub>			
Measurement range:		0 to 100 Vol% CO <sub>2</sub>			
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 MEAS	UREMENT RA	ANGE 0 TO 10	00 VOL%	CO <sub>2</sub>	
Response time:		Diffusion mode ≤ 20 seconds (t <sub>50</sub> )			
		Diffusion mode ≤ 65 seconds (t <sub>90</sub> )			
		Pump mode ≤ 20 seconds (t <sub>50</sub> )			
		Pump mode ≤ 65 seconds (t <sub>90</sub> )			
Precision:		≤ ± 2.0 Vol% CO <sub>2</sub> at 50 Vol%			
Linearity error, typical:		$\leq$ ± 1 Vol% CO <sub>2</sub> or $\leq$ ± 5% of measured value (whichever is higher)			
Long-term drift					
Zero point:		≤ ± 0.2 Vol% CO <sub>2</sub> /month			
Precision:		≤ ± 3% of measured value/month at 50 Vol%			
Influence of tempe	rature				
Zero point: $\leq \pm 0.004 \text{ Vol}\% \text{ CO}_2/\text{K} \text{ at } (-20 \text{ to } 60)^{\circ}\text{C}$				t (-20 to 60)°C (-4 to 1	40)°F
Precision:		≤ ± 0.4% of measured value/K at 50 Vol% and (-20 to 60)°C			
		(-4 to 140)°F			
Effect of humidity, a	at 40°C (104 °F)				
(0 to 95% RH, non-	-condensing)				
Zero point:		≤ ± 0.5 Vol%	CO <sub>2</sub>	<u> </u>	
Test gas:		50 Vol% CO <sub>2</sub>			

## 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.