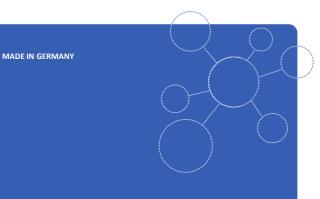
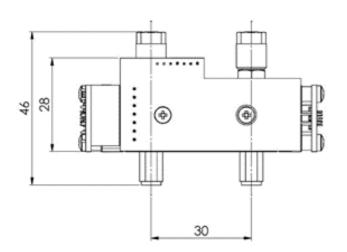
smartGAS.



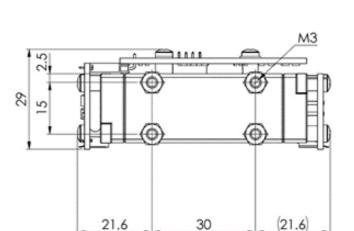
FLOWEVO

Infrared gas Sensor Carbon monoxide CO 5 Vol.-% smartGAS item number: F3-222506-05000

- Pre calibrated
- Compact Design
- 3/5 mm gas line connector
- 3.3–6 V DC supply voltage
- Modbus ASCII or RTU
- Status indicated by LED
- Low drift



Application examples Gas analysis Biogas application Environmental monitoring Process control Emission monitoring Available equipment Gas cooler Particle filter Gas pump Calibration Software Mounting equipment



Available design in support Mechanical Installation Data communication Gas pre-treatment

73.2

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FLOW^{EVO} I Carbon monoxide CO I F3-222506-05000

Measurement principle:	Non-Dispersive Infra-	Red (NDIR), dual wavelength	
Measurement range:	0 5 Vol% Full Scale (FS) by flow (nearly atmospheric pressure) 0.1 1.0 l / min		
Gas supply:			
Flow rate:			
Mounting dimensions:	76 mm x 30 mm x 50	76 mm x 30 mm x 50 mm (L x W x H)	
Warm-up time:	< 2 minutes (start-up time) < 30 minutes (full specification)		
Measuring response*			
Digital resolution:	0.001 Vol%	0.001 Vol%	
Response time @ 0.7 I / min**:	Standard:	Fast:	
t ₉₀ (10 to 90 % FS):	≤ 9.9 s	≤ 0.7 s	
t _{on} (0 to 90 % FS):	≤ 16.5 s	≤ 1.8 s	
Detection limit (3 σ):	≤ 0.01 Vol%	≤ 0.02 Vol%	
Repeatability:	≤±0.02 Vol%		
Linearity error (straight line deviation):	≤±0.05 Vol%		
Long term stability (zero):	\leq ± 0.3 Vol% over 1000 h period		
Long term stability (span):	\leq ± 1.1 Vol% over 1000 h period		
Influence of T, P, flow rate, other*			
Temp. dependence (zero):	≤ ± 0.002 Vol% per °C		
Temp. dependence (span):	≤ ± 0.004 Vol% per °C		
Pressure dependence:	+ 0.134 % of actual reading / hPa		
Flow rate dependence:	≤ ± 0.02 Vol% per 0.1 l / min		
Cross sensitivity (zero) other gases:	consult factory		
Gas dew point requirement:	< + 5°C dew point (stable), particle free and clean sample gas		
Electrical parameters			
Supply voltage	3.3 V 6.0 VDC		
Supply current (peak):	< 400 mA @ 3.3 V, < 240 mA @ 5.0 V		

Supply current (peak):	< 400 mA @ 3.3 V, < 240 mA @ 5.0 V
Inrush current:	< 600 mA
Average power consumption:	< 800 mW
Digital output signal:	Modbus ASCII / RTU via UART, autobaud, autoframe
Calibration:	zero and span by SW

Climatic conditions

Operating temperature:	0 +50 °C
Storage temperature:	-20 +60 °C
Air pressure:	800 1150 hPa
Ambient humidity:	0 95 % relative humidity (not condensing)

 Typical values related to 1013 hPa, Ta = 22 °C, flow = 0.7 l / min for dry (not condensing) and clean sample gas. Stated values exclude calibration gas tolerance.

** Adjustable only via smartGAS Calibration-Tool SW.

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For more information, please visit www.smartgas.eu or contact us at sales@smartgas.eu

Please consult smartGAS sales for parts specified with other temperature and measurement ranges. At first initiation and depending on application and ambient conditions recalibration is recommended. Recurring cycles of recalibration are recommended.