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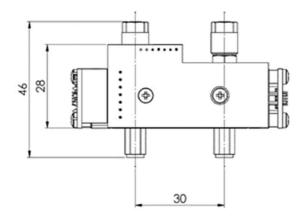


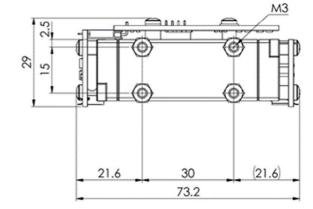
FLOWEVO

Infrared gas Sensor Methane CH₄ 50 Vol.-% smartGAS item number: F3-042507-05000



- 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 Process control Environmental monitoring

Available equipment Gas cooler Particle filter Gas pump Calibration Software Mounting equipment

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

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FLOW^{EVO} I Methane CH₄ I F3-042507-05000

General features		
Measurement principle:	Non-Dispersive Infra-Red (NDIR), dual wavelength	
Measurement range:	0 50 Vol% Full Scale (FS)	
Gas supply:	by flow (nearly atmospheric pressure)	
Flow rate:	0.1 1.0 l / min	
Mounting dimensions:	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*

0.01 Vol%	
Standard:	Fast:
≤ 9.9 s	≤ 0.7 s
≤ 16.5 s	≤ 1.8 s
≤ 0.2 Vol%	≤ 0.38 Vol%
≤ ± 0.4 Vol%	
≤ ± 0.6 Vol%	
\leq ± 0.6 Vol% over 1000 h period	
\leq ± 1.8 Vol% over 1000 h period	
	Standard: $\leq 9.9 \text{ s}$ $\leq 16.5 \text{ s}$ $\leq 0.2 \text{ Vol\%}$ $\leq \pm 0.4 \text{ Vol\%}$ $\leq \pm 0.6 \text{ Vol\%}$ $\leq \pm 0.6 \text{ Vol\%}$ over 1000 h per

Influence of T, P, flow rate, other*

Temp. dependence (zero):	≤ ± 0.1 Vol% per °C
Temp. dependence (span):	≤ ± 0.2 Vol% per °C
Pressure dependence:	+ 0.100 % of actual reading / hPa
Flow rate dependence:	≤ ± 0.1 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

Air pressure:

Ambient humidity:

-		
Supply voltage	3.3 V 6.0 VDC	
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	

800 ... 1150 hPa

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.