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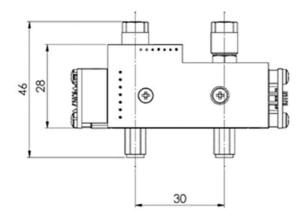


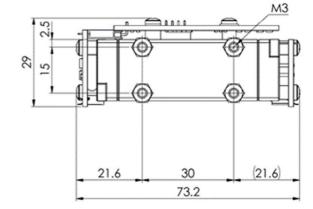
FLOWEVO

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.