

FLOW^{EVO}

Infrared gas sensor SO₂F₂ // Sulfuryl Flouride // 100 ppm
smartGAS item number: F3-412104-05000

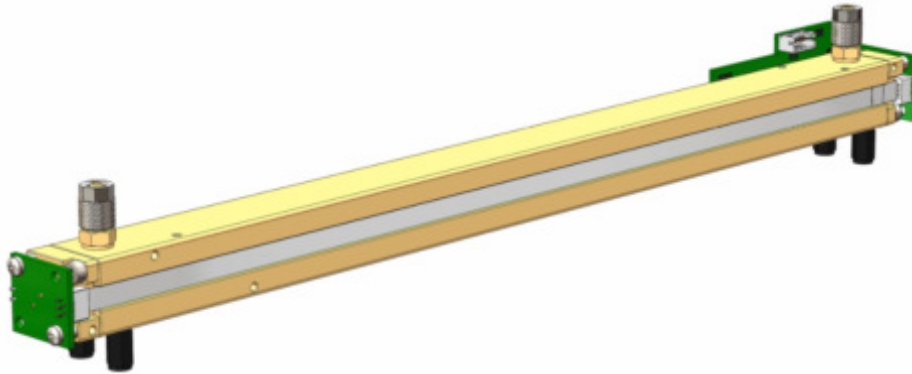


Illustration similar

- Pre calibrated
- Ready to use
- 3/5 mm gas line connectors
- 3.3 - 6 V DC supply voltage
- Modbus ASCII or RTU
- Status indication by LED
- Low drift

Non Dispersive Infrared (NDIR) gas sensor for gas analysis using dual wavelength technology. Designed for different applications such as emission monitoring or process control in a wide range of gas measurement systems.

The FLOW^{EVO} sensor can easily be integrated into OEM systems, where long term stability, repeatability and reliable performance are required. It can be used in the food industry, for stack gas monitoring in incineration plants and fumigation but also in the field of environmental analysis. High-precision NDIR technology requires little maintenance compared to conventional chemical sensors and its small detection thresholds and long life expectancy qualify our NDIR sensors for numerous tasks in countless areas of scientific research.

Modbus ASCII or RTU data communication offer a variety of options to connect the FLOW^{EVO} sensor to a controller.

APPLICATION EXAMPLES

FUMIGATION MONITORING

LEAK DETECTION

OCCUPATIONAL HEALTH AND SAFETY MONITORING



Distributed by:
Air-Met Scientific Pty Ltd

Air-Met Sales/Service
P: 1800 000 744
F: 1800 000 774
E: sales@airmet.com.au

Air-Met Rental
P: 1300 137 067
E: hire@airmet.com.au
W: www.airmet.com.au

Infrared gas sensor SO₂F₂ // Sulfuryl Flouride // 100 ppm
 smartGAS item number: F3-412104-05000

General features	
Measurement principle:	Non Dispersive Infra-Red (NDIR), dual wavelength
Measurement range:	0 .. 100 ppm Full Scale (FS)
Gas supply:	by flow (nearly atmospheric pressure)
Flow rate:	0.1 .. 1.0 l / min
Dimensions:	333 mm x 30 mm x 37 mm (L x W x H)
Warm-up time:	< 2 minutes (start up time) < 30 minutes (full specification)
Measuring response*	
Response time (t ₉₀):	Appr. 12 s @ 0.7 l / min
Digital resolution (@ zero):	0.01 ppm
Detection limit (3 σ):	≤ 2 ppm
Repeatability:	≤ ± 1 ppm
Linearity error (straight line deviation):	≤ ± 1 ppm
Long term stability (span):	≤ consult factory
Long term stability (zero):	≤ consult factory
Influence of T, P, flow rate, other*	
Temp. dependence (zero):	≤ ± 0.3 ppm per °C
Temp. dependence (span):	≤ ± 0.4 ppm per °C
Pressure dependence:	+ 0.100 % of measurement value / hPa
Flow rate dependence:	≤ ± 0.01 ppm per 0.1 l / min
Cross sensitivity (zero) other gases:	consult factory
Electrical inputs and outputs	
Supply voltage:	3.3 V .. 6.0 V DC
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 = 0.1 l / min for dry (non-condensing) and clean sample gas. Stated values exclude calibration gas tolerance.	

All rights reserved. Any logos and/or product names are trademarks of smartGAS. The reproduction, transfer, distribution or storage of information contained in this brochure in any form without the prior written consent of smartGAS is strictly prohibited. All specifications – technical included – are subject to change without notice. Depending on the application, the target gas and the measurement range the technical data may differ. No liability is accepted for any consequential losses, injury or damage resulting from the use of this document or from any omissions or errors herein. The data is given for guidance only. It does not constitute a specification or an offer for sale.

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.