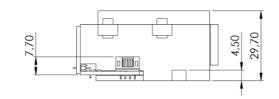
## smartGAS.

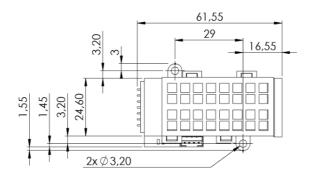


## BASICEVO

Infrared gas Sensor Refrigerant R507 1000 ppm smartGAS item number: B3-772105-03000

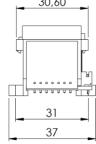
- Pre calibrated
- Low drift
- Gas entry by diffusion
- 3.3 6 V DC supply voltage
- Modbus ASCII or RTU
- Status indication by LED

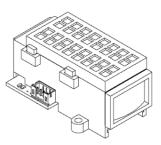




Application examples Hotel air conditioning Food storage rooms Industrial Refrigeration Food Transport Research Available equipment Connect Interface Wall mount enclosure Calibration software Mounting equipment







Available design in support Mechanical installation Data communication also, as complete Transmitter

## smartGAS.

## BASICEVO I Refrigerant R507 I B3-772105-03000

Measurement principle:	Non Dispersive Infra-Red (NDIR), dual wavelength
Measurement range:	0 1000 ppm Full Scale (FS)
Gas supply:	by diffusion (atmospheric pressure)
Mounting dimensions:	62 mm x 37 mm x 30 mm (L x W x H)
Warm-up time:	< 2 minutes (start up time)
	< 11 minutes (fade in finished)
	< 30 minutes (full specification)
Measuring response*	
Response time (t <sub>90</sub> ):	appr. 60 s
Digital resolution:	1 ppm
Detection limit (3 σ):	≤ 10 ppm
Repeatability:	≤ ± 15 ppm
Linearity error (straight line deviation):	≤ ± 20 ppm
Long term stability (zero):	$\leq$ ± 25 ppm over 12 month period
Long term stability (span):	$\leq$ ± 30 ppm over 12 month period
Influence of T, P, flow rate, other* Temp. dependence (zero):	≤±1.5 ppm per °C
Temp. dependence (span):	≤±3 ppm per °C
Temp. dependence (span): Pressure dependence:	≤±3 ppm per °C + 0.100 % of actual reading / hPa
Pressure dependence:	
Pressure dependence: Electrical parameters	+ 0.100 % of actual reading / hPa
Pressure dependence: Electrical parameters Supply voltage	+ 0.100 % of actual reading / hPa 3.3 V 6.0 VDC
Pressure dependence: Electrical parameters Supply voltage Supply current (peak):	+ 0.100 % of actual reading / hPa 3.3 V 6.0 VDC < 400 mA @ 3.3 V, < 240 mA @ 5.0 V
Pressure dependence: Electrical parameters Supply voltage Supply current (peak): Inrush current:	+ 0.100 % of actual reading / hPa 3.3 V 6.0 VDC < 400 mA @ 3.3 V, < 240 mA @ 5.0 V < 450 mA
Pressure dependence: Electrical parameters Supply voltage Supply current (peak): Inrush current: Average power consumption:	+ 0.100 % of actual reading / hPa 3.3 V 6.0 VDC < 400 mA @ 3.3 V, < 240 mA @ 5.0 V < 450 mA < 800 mW
Pressure dependence: Electrical parameters Supply voltage Supply current (peak): Inrush current: Average power consumption: Digital output signal:	+ 0.100 % of actual reading / hPa 3.3 V 6.0 VDC < 400 mA @ 3.3 V, < 240 mA @ 5.0 V < 450 mA < 800 mW Modbus ASCII / RTU via UART, autobaud, autoframe
Pressure dependence: Electrical parameters Supply voltage Supply current (peak): Inrush current: Average power consumption: Digital output signal: Calibration:	+ 0.100 % of actual reading / hPa 3.3 V 6.0 VDC < 400 mA @ 3.3 V, < 240 mA @ 5.0 V < 450 mA < 800 mW Modbus ASCII / RTU via UART, autobaud, autoframe
Pressure dependence: Electrical parameters Supply voltage Supply current (peak): Inrush current: Average power consumption: Digital output signal: Calibration: Climatic conditions	+ 0.100 % of actual reading / hPa 3.3 V 6.0 VDC < 400 mA @ 3.3 V, < 240 mA @ 5.0 V < 450 mA < 800 mW Modbus ASCII / RTU via UART, autobaud, autoframe zero and span by SW
Pressure dependence: Electrical parameters Supply voltage Supply current (peak): Inrush current: Average power consumption: Digital output signal: Calibration: Climatic conditions Operating temperature:	+ 0.100 % of actual reading / hPa 3.3 V 6.0 VDC < 400 mA @ 3.3 V, < 240 mA @ 5.0 V < 450 mA < 800 mW Modbus ASCII / RTU via UART, autobaud, autoframe zero and span by SW -20 + 40 °C

 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.

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.