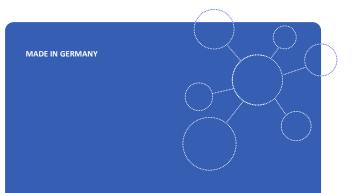


## Electro Optical Components, Inc. 5464 Skylane Boulevard, Suite D, Santa Rosa, CA 95403

54 Skylane Boulevard, Suite D, Santa Rosa, CA 954 Toll Free: 855-EOC-6300 <u>www.eoc-inc.com</u> | <u>info@eoc-inc.com</u>



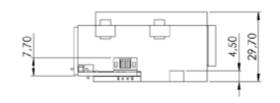
# smartGAS.

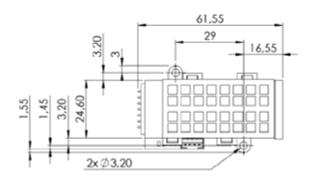


## BASICEVO

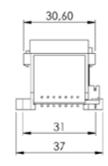
Infrared gas Sensor Refrigerant R407c 1000 ppm smartGAS item number: B3-802105-03000

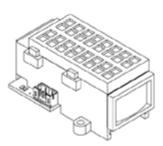
- Pre calibrated
- Low drift
- Gas entry by diffusion
- 3.3 6 V DC supply voltage
- Modbus ASCII or RTU
- Status indication by LED











#### **Application examples**

Hotel air conditioning Food storage rooms Industrial Refrigeration Food Transport Research

#### Available equipment Connect Interface Wall mount enclosure Calibration software Mounting equipment

### BASICEVO I Refrigerant R407c I B3-802105-03000

#### **General features** 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 $\sigma$ ): ≤ 10 ppm **Repeatability:** $\leq \pm 10 \text{ ppm}$ Linearity error (straight line deviation): ≤ ± 20 ppm Long term stability (zero): $\leq \pm$ 30 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): $\leq$ ± 1.5 ppm per °C Temp. dependence (span): $\leq \pm 3$ ppm per °C Pressure dependence: + 0.100 % of actual reading / hPa **Electrical parameters** 3.3 V ... 6.0 VDC Supply voltage < 400 mA @ 3.3 V, < 240 mA @ 5.0 V Supply current (peak): Inrush current: < 450 mA < 800 mW Average power consumption: Digital output signal: Modbus ASCII / RTU via UART, autobaud, autoframe Calibration: zero and span by SW **Climatic conditions** -20 ... + 40 °C Operating temperature: -20 ... + 60 °C Storage temperature: 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.

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.