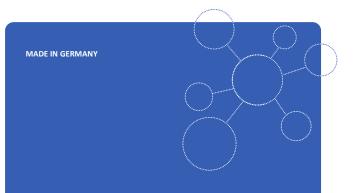


Electro Optical Components, Inc. 5464 Skylane Boulevard, Suite D, Santa Rosa, CA 95403

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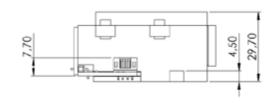
smartGAS.

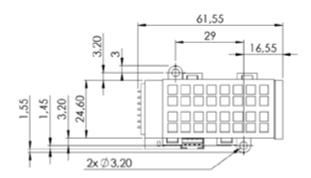


BASICEVO

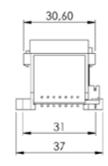
Infrared gas Sensor Refrigerant R407c 1000 ppm smartGAS item number: B3-802105-03000

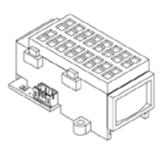
- Pre calibrated
- Low drift
- Gas entry by diffusion
- 3.3 6 V DC supply voltage
- Modbus ASCII or RTU
- Status indication by LED











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 (t₉₀): appr. 60 s Digital resolution: 1 ppm Detection limit (3 σ): ≤ 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.

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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.