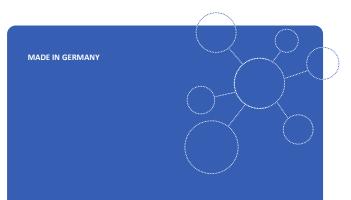


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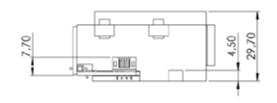
smartGAS.

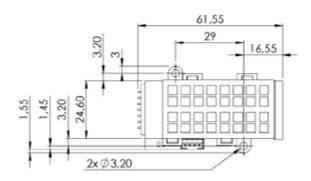


BASICEVO

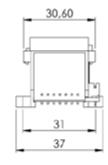
Infrared gas Sensor Carbon Dioxide CO₂ 5 Vol.-% smartGAS item number: B3-212506-00000

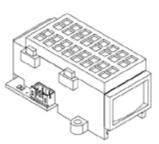
- Pre calibrated
- Low drift
- Gas entry by diffusion
- 3.3 6 V DC supply voltage
- Modbus ASCII or RTU
- Status indication by LED











Application examples

Hotel air conditioning Workplace security Research

Available equipment

Connect Interface Wall mount enclosure Calibration software Mounting equipment

Available design in support

Mechanical installation Data communication also, as complete Transmitter

BASICEVO I Carbon Dioxide CO₂ I B3-212506-00000

General features	
Measurement principle:	Non Dispersive Infra-Red (NDIR), dual wavelength
Measurement range:	0 5 Vol% 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 ₉₀):	appr. 60 s
Digital resolution:	0.001 Vol%
Detection limit (3 σ):	≤ 0.05 Vol%
Repeatability:	≤±0.05 Vol%
Linearity error (straight line deviation):	≤±0.2 Vol%
Long term stability (zero):	\leq ± 0.1 Vol% over 12 month period
Long term stability (span):	\leq ± 0.55 Vol% over 12 month period

Influence of T, P, flow rate, other*

Temp. dependence (zero):	≤±0.007 Vol% per °C
Temp. dependence (span):	≤ ± 0.015 Vol% per °C
Pressure dependence:	+ 0.156 % of actual reading / hPa

Electrical parameters

Supply voltage	3.3 V 6.0 VDC
Supply current (peak):	< 500 mA @ 3.3 V, < 240 mA @ 5.0 V
Inrush current:	< 1000 mA
Average power consumption:	< 900 mW
Digital output signal:	Modbus ASCII / RTU via UART, autobaud, autoframe
Calibration:	zero and span by SW

Climatic conditions

Operating temperature:	-20 + 40 °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 = 0.7 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.