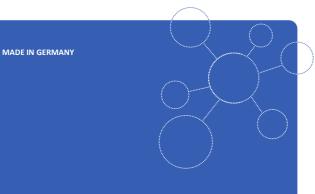
smartGAS.

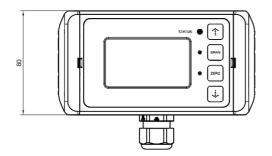


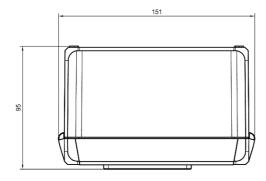
TRANSMITTEREVO

Infrared gas detector Chlorodifluoromethane R22 1000 ppm smartGAS item number: T4-702105-03000



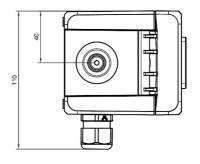
- IP54 protection
- 12 28V DC supply voltage

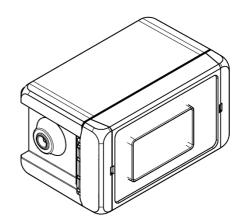




Application examples Hotel air conditions Laboratories Hospitals Research Food transport Available equipment Calibration software Calibration adapter Calibration gas







Available design in support Mechanical installation Data communication

smartGAS.

TRANSMITTER^{EVO} I Chlorodifluoromethane R22 I T4-702105-03000

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: Warm-up time:	151 mm x 80 mm x 95 mm (L x W x H) < 2 minutes (start up time) < 11 minutes (fade in finished)
	< 30 minutes (full specification)
Protection class:	IP54
Electrical connection:	Cable diameter without adapter plug max. 1.5 mm ² (single wire) c 1 mm ² (strand). Cable diameter with adapter max. 2.5 mm ²
Measuring response*	
Response time (t ₉₀):	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): Long term stability (span):	$\leq \pm 25$ ppm over 12 month period $\leq \pm 30$ ppm over 12 month period
Long term stability (span): Influence of T, P, other*	≤±30 ppm over 12 month period
Long term stability (span): Influence of T, P, other* Temp. dependence (zero):	$\leq \pm 30$ ppm over 12 month period $\leq \pm 1.5$ ppm per °C
Long term stability (span): Influence of T, P, other* Temp. dependence (zero): Temp. dependence (span):	$\leq \pm 30$ ppm over 12 month period $\leq \pm 1.5$ ppm per °C $\leq \pm 3$ ppm per °C
Long term stability (span): Influence of T, P, other* Temp. dependence (zero): Temp. dependence (span): Pressure dependence:	$\leq \pm 30$ ppm over 12 month period $\leq \pm 1.5$ ppm per °C
Long term stability (span): Influence of T, P, other* Temp. dependence (zero): Temp. dependence (span): Pressure dependence: Electrical parameters	<pre>≤± 30 ppm over 12 month period </pre> <pre>≤± 1.5 ppm per °C </pre> <pre>≤± 3 ppm per °C </pre> <pre>+ 0.100 % of actual reading / hPa</pre>
Long term stability (span): Influence of T, P, other* Temp. dependence (zero): Temp. dependence (span): Pressure dependence: Electrical parameters Supply voltage	<pre>≤ ± 30 ppm over 12 month period ≤ ± 1.5 ppm per °C ≤ ± 3 ppm per °C + 0.100 % of actual reading / hPa 12 V 28 VDC</pre>
Long term stability (span): Influence of T, P, other* Temp. dependence (zero): Temp. dependence (span):	<pre>≤± 30 ppm over 12 month period </pre> <pre>≤± 1.5 ppm per °C </pre> <pre>≤± 3 ppm per °C </pre> <pre>+ 0.100 % of actual reading / hPa</pre>
Long term stability (span): Influence of T, P, other* Temp. dependence (zero): Temp. dependence (span): Pressure dependence: Electrical parameters Supply voltage Supply current (peak): Inrush current:	$\leq \pm 30 \text{ ppm over } 12 \text{ month period}$ $\leq \pm 1.5 \text{ ppm per °C}$ $\leq \pm 3 \text{ ppm per °C}$ $\pm 0.100 \% \text{ of actual reading / hPa}$ $12 \text{ V} \dots 28 \text{ VDC}$ $< 85 \text{ mA } @ 12 \text{ V}, < 45 \text{ mA } @ 28 \text{ V}$
Long term stability (span): Influence of T, P, other* Temp. dependence (zero): Temp. dependence (span): Pressure dependence: Electrical parameters Supply voltage Supply voltage Supply current (peak): Inrush current: Average power consumption:	<pre> ≤ ± 30 ppm over 12 month period ≤ ± 1.5 ppm per °C ≤ ± 3 ppm per °C + 0.100 % of actual reading / hPa 12 V 28 VDC < 85 mA @ 12 V, < 45 mA @ 28 V < 100 mA</pre>
Long term stability (span): Influence of T, P, other* Temp. dependence (zero): Temp. dependence (span): Pressure dependence: Electrical parameters Supply voltage Supply current (peak):	$\leq \pm 30 \text{ ppm over } 12 \text{ month period}$ $\leq \pm 1.5 \text{ ppm per °C}$ $\leq \pm 3 \text{ ppm per °C}$ $+ 0.100 \% \text{ of actual reading / hPa}$ $12 \text{ V} \dots 28 \text{ VDC}$ $< 85 \text{ mA @ } 12 \text{ V, } < 45 \text{ mA @ } 28 \text{ V}$ $< 100 \text{ mA}$ $< 1000 \text{ mW}$
Long term stability (span): Influence of T, P, other* Temp. dependence (zero): Temp. dependence (span): Pressure dependence: Electrical parameters Supply voltage Supply voltage Supply current (peak): Inrush current: Average power consumption: Digital output signal: Analogue output signal:	 ≤± 30 ppm over 12 month period ≤± 1.5 ppm per °C ≤± 3 ppm per °C + 0.100 % of actual reading / hPa 12 V 28 VDC <85 mA @ 12 V, < 45 mA @ 28 V <100 mA <100 mA <1000 mW Modbus ASCII / RTU via RS 485, autobaud, autoframe
Long term stability (span): Influence of T, P, other* Temp. dependence (zero): Temp. dependence (span): Pressure dependence: Electrical parameters Supply voltage Supply voltage Supply voltage Supply current (peak): Inrush current: Average power consumption: Digital output signal: Analogue output signal: Calibration:	$\leq \pm 30 \text{ ppm over 12 month period}$ $\leq \pm 1.5 \text{ ppm per °C}$ $\leq \pm 3 \text{ ppm per °C}$ $+ 0.100 \% \text{ of actual reading / hPa}$ $12 \text{ V} \dots 28 \text{ VDC}$ $< 85 \text{ mA @ 12 V, < 45 \text{ mA @ 28 V}}$ $< 100 \text{ mA}$ $< 100 \text{ mW}$ Modbus ASCII / RTU via RS 485, autobaud, autoframe $0(4) -20 \text{ mA, max } 500 \Omega / 0.2 \text{ V / } 0.5 \text{ V / } 0.10 \text{ V (DC)}$
Long term stability (span): Influence of T, P, other* Temp. dependence (zero): Temp. dependence (span): Pressure dependence: Electrical parameters Supply voltage Supply voltage Supply current (peak): Inrush current: Average power consumption: Digital output signal:	$\leq \pm 30 \text{ ppm over 12 month period}$ $\leq \pm 1.5 \text{ ppm per °C}$ $\leq \pm 3 \text{ ppm per °C}$ $+ 0.100 \% \text{ of actual reading / hPa}$ $12 \text{ V} \dots 28 \text{ VDC}$ $< 85 \text{ mA @ 12 V, < 45 \text{ mA @ 28 V}}$ $< 100 \text{ mA}$ $< 100 \text{ mW}$ Modbus ASCII / RTU via RS 485, autobaud, autoframe $0(4) -20 \text{ mA, max } 500 \Omega / 0.2 \text{ V / } 0.5 \text{ V / } 0.10 \text{ V (DC)}$
Long term stability (span): Influence of T, P, other* Temp. dependence (zero): Temp. dependence (span): Pressure dependence: Electrical parameters Supply voltage Supply voltage Supply current (peak): Inrush current: Average power consumption: Digital output signal: Analogue output signal: Calibration: Climatic conditions	$\leq \pm 30 \text{ ppm over 12 month period}$ $\leq \pm 1.5 \text{ ppm per °C}$ $\leq \pm 3 \text{ ppm per °C}$ $+ 0.100 \% \text{ of actual reading / hPa}$ $12 \text{ V} \dots 28 \text{ VDC}$ $< 85 \text{ mA @ 12 V, < 45 \text{ mA @ 28 V}}$ $< 100 \text{ mA}$ $< 1000 \text{ mW}$ Modbus ASCII / RTU via RS 485, autobaud, autoframe $0(4) -20 \text{ mA, max 500 } \Omega / 0.2 \text{ V / } 0.5 \text{ V / } 0.10 \text{ V (DC)}$ zero and span by SW or push buttons
Long term stability (span): Influence of T, P, other* Temp. dependence (zero): Temp. dependence (span): Pressure dependence: Electrical parameters Supply voltage Supply voltage Supply current (peak): Inrush current: Average power consumption: Digital output signal: Analogue output signal: Calibration: Climatic conditions Operating temperature:	$\leq \pm 30 \text{ ppm over } 12 \text{ month period}$ $\leq \pm 1.5 \text{ ppm per °C}$ $\leq \pm 3 \text{ ppm per °C}$ $+ 0.100 \% \text{ of actual reading / hPa}$ $12 \text{ V} \dots 28 \text{ VDC}$ $< 85 \text{ mA @ } 12 \text{ V, } < 45 \text{ mA @ } 28 \text{ V}$ $< 100 \text{ mA}$ $< 1000 \text{ mW}$ Modbus ASCII / RTU via RS 485, autobaud, autoframe $0(4) -20 \text{ mA, max } 500 \Omega / 0-2 \text{ V / } 0-5 \text{ V / } 0-10 \text{ V (DC)}$ $\text{zero and span by SW or push buttons}$ $-20 \dots + 40 \text{ °C}$

* 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.

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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.