RMS-CCD-S-XX

Advantages

- High-precision measurement and long-term stability
- With ambient pressure compensation
- Large measurement range
- With automatic CO_2 calibration
- Compatible with RMS-Logger, RMS On-premises software and SaaS solutions

Applications

- Open-Plan Offices
- Classrooms
- Shopping Centers

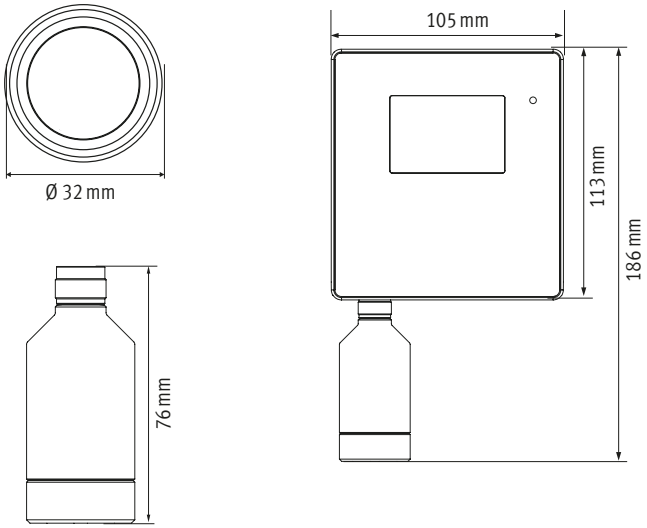
TECHNICAL INFORMATION

The Rotronic CO_2 probes are ideal for office rooms and applications where the quality of room air has a big effect. Together with other measurement parameters, these probes can be integrated in RMS perfectly.

Compatible with

- RMS-LOG: Wireless ≥V1.5/LAN data loggers ≥V1.4

Dimensions



Measurement principle	Infrared (NDIR)
Parameter	CO_2 concentration (ppm / %)
Accuracy @ 25 °C ±10 K, 20–60 %RH (after min. 3 weeks ABC)[1]	±50 ppm ±3 % of read value @ 0–2000 ppm ±10 % of read value @ 2000–10,000 ppm
Medium	Air & non-aggressive gases
Ambient pressure & temperature compensation	Automatic (300–1100hPa)
Adjustment and calibration	Factory adjustment/calibration: 1 point Customer adjustment: max. 9 points
Measurement range	0...2000ppm / 5000ppm / 10'000ppm
Resolution	1 ppm
Startup time	≤300s
Measurement interval	16s probe
Response time τ 63	130s @ level descending
	87s @ level ascending
Range of application	0...50°C, 0...95%RH non-condensing
Voltage	3.3–5.5V
Current consumption (16 s interval)	20 mA (avg.) / peak 260 mA
Battery life (RMS wireless/LAN logger)	2.7d @ 10s/60s interval
Interface	UART
Protocols	Modbus RTU
FDA / GAMP directives	FDA CFR21 Part 11 / GAMP5
Housing material	Polycarbonate (housing) Stainless steel DIN 1.4305 (nuts)
Fire protection class	Corresponds to UL94-V2
Dimensions	Ø 32mm x 87mm
Weight	55g
IP protection class	IP40

[1] *Accuracy relates to the uncertainty of calibration mixtures +- 1 %*

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