

CCA-S-20X-SET

The CCA-S-20X is an analog probe with NDIR technology for measurement of carbon dioxide (CO₂). Developed with a pyroelectric infrared detector with dual temperature compensation and an integrated semiconductor temperature sensor to maximize accuracy and minimize drift. The signal is converted to 4...20 mA by the converter with power supply (CCA-S-20X-SET).

FEATURES

- Measures from 0 to 20 %CO₂
- Suitable for incubators: 37 °C, 95...98 %rh and 5 %CO₂
- Interchangeable probes
- ±0.1 °C accuracy in measurement range

General specifications	
Measurement principle	Infrared (NDIR)
Measured parameter	Carbon dioxide concentration (%)
Accuracy	±10 % of measured value
Medium	Air & non-aggressive gases
Long-term stability	±0.24 %CO ₂ /year
Temperature dependence	±10 % of measured value
Pressure dependence	±0.15 % of measured value/hPa
Measurement range	0...20 %CO ₂
Application range	-20...50 °C / 0...100 %rh, 700...1200 hPa
Storage conditions	-20...30 °C / 0...95 %rh
Startup time	60 s
Power supply	CCA-S-20X: 3...5 VDC / 80 mA CCA-S-20X-Set: 24 VDC / 150 mA
AC adapter requirements	100...240 VAC / 50...60 Hz / 0.3 A
Output signal	4...20 mA (CCA-S-20X-SET) 0.4...2.0 V (CCA-S-20X only sensor)
Conformity with Standards	
FDA / GAMP directives	FDA CFR21 Part 11 / GAMP 5
Housing / Mechanical parts	
Enclosure material	Polycarbonate (housing) Stainless steel DIN 1.4305 (nut)
Fire protection class	Corresponds to UL94-HB
Dimensions	Sensor: 32 mm x 87 mm Converter box: 100 mm x 77 mm x 40 mm (LxWxH)
IP protection class	IP40
Weight	55 g sensor 200 g converter box

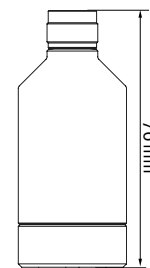
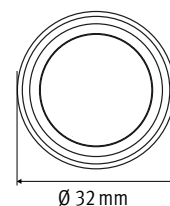


Fig.: CCA-S-20X-SET

Compatible

- | | |
|--------------------------|-----------------------------------|
| • Analog Input | RMS-MADC-868/915-A
RMS-ADC-L-R |
| • CO ₂ Sensor | CCA-S-20X |
| • RMS On-Premise | RMS-WEB |
| • RMS SaaS solutions | RMS-CLD |

Delivery package

- CCA-S-20X
- Power supply
- Converter box
- E2-01XX