

# CCA-S-20X-SET



CCA-S-20X

## BENEFITS

- Measures from 0 to 20 %CO<sub>2</sub>
- Suitable for incubators: 37 °C, 95...98 %RH and 5 %CO<sub>2</sub>
- Interchangeable probes
- ±0.1 °C accuracy in measurement range

## APPLICATIONS

- Incubators



## TECHNICAL INFORMATION

The CCA-S-20X is an analog probe with NDIR technology for measurement of carbon dioxide (CO<sub>2</sub>) for incubators. 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).

### Compatible with:

- RMS-ADC-L-R                      Analog Input
- RMS-MADC-868/915-A        Analog Input
- CCA-S-20X                        CO<sub>2</sub> Sensor
- RMS-WEB                         RMS Server Software
- RMS-CLD                         RMS Cloud

### Delivery Package

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

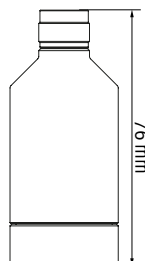
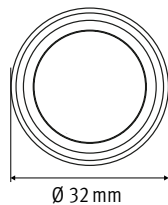


Fig.: CCA-S-20X-SET

Measurement principle	Infrared (NDIR)
Measured parameter	Carbon dioxide concentration (%)
Accuracy	At 5 % vol. CO <sub>2</sub> ±0.15 % CO <sub>2</sub> 0 ... 8 % vol. CO <sub>2</sub> ±0.15 % CO <sub>2</sub> 0 ... 20 % vol. CO <sub>2</sub> ±0.2 % CO <sub>2</sub>
Medium	Air & non-aggressive gases
Long-term stability	±0.24 %CO <sub>2</sub> /year
Temperature dependence	±10 % of measured value
Pressure dependence	±0.15 % of measured value/hPa
Measurement range	0...20 %CO <sub>2</sub>
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)
FDA / GAMP directives	FDA CFR21 Part 11 / GAMP 5
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

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