

CCA-S-20X-SET



CCA-S-20X

BENEFITS

- 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

APPLICATIONS

- Incubators



TECHNICAL INFORMATION

The CCA-S-20X is an analog probe with NDIR technology for measurement of carbon dioxide (CO₂) 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 CO₂ Sensor
- RMS-WEB RMS Server Software
- RMS-CLD RMS Cloud

Delivery Package

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

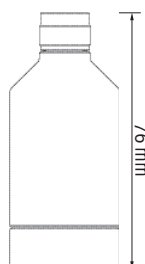
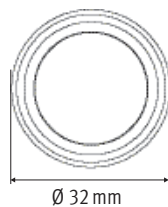


Fig.: CCA-S-20X-SET

Measurement principle	Infrared (NDIR)
Measured parameter	Carbon dioxide concentration (%)
Accuracy	At 5 % vol. CO ₂ ±0.15 % CO ₂ 0 ... 8 % vol. CO ₂ ±0.15 % CO ₂ 0 ... 20 % vol. CO ₂ ±0.2 % CO ₂
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: 12 VDC / 0,5 A
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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