



## NDIR Gas Measurement Module

High Temperature CO<sub>2</sub>-Gas Measurement Module for operating temperatures up to 190 °C and external electronics. Perfectly suitable for monitoring CO<sub>2</sub>-concentration in gas mixtures and measuring the ambient air temperature.

Parameter	Value
Concept	optical double beam configuration atmosphere pressure compensated
Measuring Gas	CO <sub>2</sub>
Measurement Range	0 ... 20 vol%
Measuring Temperature Range	0 ... 190 °C
Measurement Accuracy	±(0.2 vol% + 2 % of read)
Additional Errors	< 2 % of the measured value for temperature and atmospheric pressure
Response Time	< 30 s
Heat Up Time	< 15 min
Temperature Range Sensor	-25 ... +200 °C
Temperature Range Ext. Electronics	-25 ... +85 °C
Interfaces	4 – 20 mA 0 – 1 V, 0 – 10 V RS232, CAN
Supply Voltage	12 V ±1 V max. 2 W



### Ordering Information:

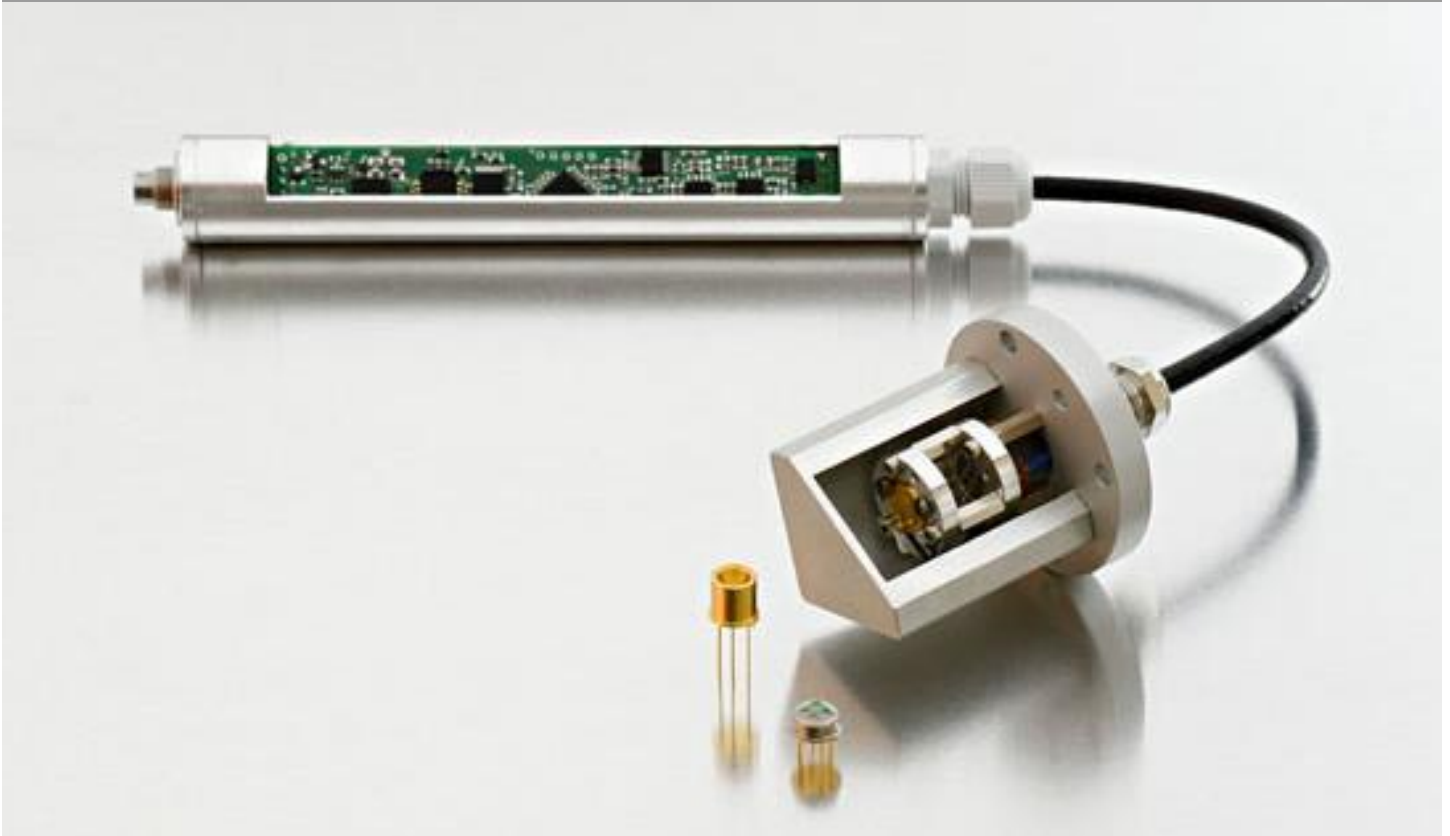
7202.02-A.00



# 7202.02-A.00

## CO<sub>2</sub>-Gassensor Module

data sheet



High Temperature NDIR Gas Measurement Module for CO<sub>2</sub>-Monitoring

### General characteristics

- For operating temperatures up to 190 °C
- Additional measurement of ambient air temperature
- Measurement range CO<sub>2</sub> of 0 ... 20 vol%
- Optical double beam configuration
- Pressure compensated
- RS232 Interface
- Analogue Output 4 ... 20 mA



# 7202.02-A.00

## CO<sub>2</sub>-Gassensor Module

data sheet

Specification	
Measuring Gas	CO <sub>2</sub>
Measurement Range	0 ... 20 Vol.-%
Measuring Temperature Range	0 ... 80 °C
Measurement Accuracy	± (0,2 Vol.-% +2% of read)
Additional Errors	< 2% of the measured value for temperature and atmospheric pressure < 0.05 Vol.-% (CO <sub>2</sub> ) per 1kPa H <sub>2</sub> O
Response time	< 30 s
Heat up time	< 15 min
Storage Temperature range sensor	-25 ... +190 °C
Storage Temperature range external electronics	-25 ... +85 °C
Operating Humidity Range Sensor	0 ... 100% rH (not condensated)
Operating Humidity Range external Electronics	0 ... 85% rH (not condensated)
Interface	RS232
Analogue output	4 ... 20mA
Supply Voltage	12V ± 1V
Power Consumption	Max. 2W
Long-Term Stability of CO <sub>2</sub> -Measurement	<5% of the measured value per 1 year
Duration of Life	5 years (37 °C, 95% rH, max. 1000h @ 190 °C and <1% rH)