Digital carbon dioxide sensor FYAD 00-CO2M2 / M3, new with filter cap, for assessing the indoor air quality and for checking ventilation in line with requirements. With built-in temperature sensor and air pressure sensor for automatic measured value compensation, with ALMEMO® D6 connector.



Technical data and functions

- Assessment of air quality for checking demand-oriented ventilation in recreation and work rooms, including classrooms, lecture halls, day care centers, meeting rooms, event rooms, production halls, health care facilities, public transportation.
- In combination with an ALMEMO® data logger, the measured values are continuously recorded with date, time. Based on the stored data, a differentiated analysis of the air quality during the room usage times is possible.
- Simultaneous measurement of air temperature as a criterion for assessing the quality of stay (comfort) in the rooms.
- Quantitative measurement of CO₂ concentration, measured value in ppm. Differentiated decision for concentrations near the quality levels 1000 ppm and 2000 ppm. On request: calibration of the sensor (traceable) by an accredited calibration laboratory.
- Calibrated reference system for CO₂ concentration for checking CO₂ sensors permanently installed in the building management system (BMS) / room ventilation system (AHU).

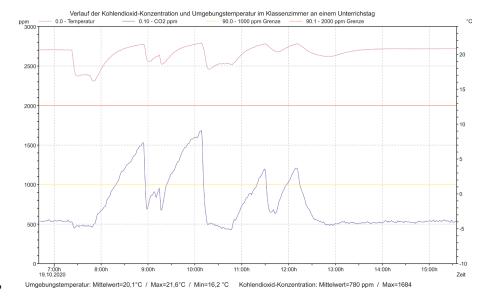
- Digital sensor with integrated signal processor. All calibration and sensor data are stored in the sensor.
- Unique auto-calibration procedure (without fresh air supply): aging effects are automatically compensated.
- New: With filter cap to protect against dust and dirt.
- Automatic compensation of carbon dioxide concentration with built-in digital temperature and barometric pressure sensor.
- Low power consumption. Long-term measurements with ALMEMO® data logger in sleep mode; only for current instrument types with sleep delay.
- 3 primary measurement channels (real measured variables): carbon dioxide concentration, air temperature, air pressure.

cable 2 m

Technical Data

Sensor supply:

Sensor: Measuring range: 05 00	2-beam infrared sensing element. Non-dispersive infrared technology (NDIR). 5 000 ppm. Automatic compensation of pressure and temperature dependence of CO ₂ measurement with the built-in sensors. ±(50 ppm +3 % of measured value)		5: permanently connected cable 2 with ALMEMO® plug 5: sensor mounted directly on ALMEMO® connector
Accuracy:		Digital air pressure senso Measuring range: Accuracy: typ.	or (built-in) 700 1100 mbar ± 2 mbar (at 25 °C)
Nominal conditions: Switch-on time (initializa	25°C, 1013 mbar	Digital air temperature sensor (built-in) Measuring range: -40 +60 °C Accuracy: typ. ± 0.5 °C (at 25 °C)	
Response time t63: Measuring interval:	fixed 15 s as exponential moving average over 60 s (= 4 instantaneous values 15 s).	ALMEMO® D6 connector Measuring channels: Refresh rate:	
Range of application: FYAD 00-CO2M3B0 FYAD 00-CO2M2B0		Supply voltage: Current consumption:	6 13 V DC approx. 4 mA (avg), approx. 70 mA (max)
New: Filter cap:	PTFE, diameter approx. 25 mm, length approx. 70 mm		
Sensor tube: FYAD 00-CO2M3B0	5: stainless steel, diameter 12 mm, length approx. 130 mm,		



via ALMEMO® D6 connector



Measured Value Recordings of CO, Concentration and Room Temperature (Example)

ALMEMO® measuring system (example): CO, sensor with data logger ALMEMO® 202-S/204

Versions (incl. works test certificate)

Order no.

Digital carbon dioxide sensor, measuring range 5 000 ppm, digital air temperature sensor and air pressure sensor built-in, new with filter cap

With handle, permanently connected cable with ALMEMO® D6 connector.

FYAD00CO2M3B05 FYAD00CO2M2B05

Sensor, directly mounted on ALMEMO® D6 connector

ÖKD calibration KY96xx, carbon dioxide concentration, for digital probe, see chapter "Calibration certificates". The ÖKD calibration fulfills the requirements of DIN EN ISO/IEC 17025 for test equipment.