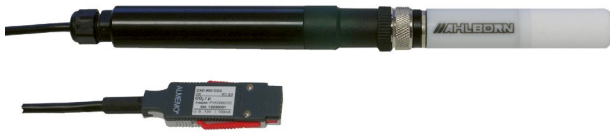


## Digital carbon dioxide sensor FYAD 00 CO2 with grip, integrated atmospheric pressure sensor for automatic atmospheric pressure compensation, and ALMEMO® D6 plug



- Digital CO<sub>2</sub> sensor with integrated signal processor
- All sensor characteristics and adjustment data are stored in the CO<sub>2</sub> sensor itself.
- The unique automatic calibration procedure (without fresh air intake) automatically compensates any natural ageing effects.
- The sensor is very well protected against the effects of pollution by means of replaceable PTFE filter caps. Long-term stability is outstanding.
- Automatic atmospheric pressure compensation is provided for pressure-dependent CO<sub>2</sub> concentrations by means of a digital atmospheric pressure sensor integrated in the grip.
- The relevant ambient parameter, atmospheric pressure, is measured using the same sensor.
- Long-term measuring operations can be performed with an ALMEMO® data logger in sleep mode; this applies only to current device types with sleep delay (180 seconds).
- 2 primary measuring channels (real measurable variables) CO<sub>2</sub> concentration and atmospheric pressure
- Freely selectable measurable variables Two measuring channels are programmed (at our factory). CO<sub>2</sub> concentration, average value (ppm), Atmospheric pressure (mbar, AP, p). Alternatively a further variable can be selected. CO<sub>2</sub> concentration, current value (ppm) The configuration is performed on the ALMEMO® V7 measuring instrument or directly on the PC using the USB adapter cable ZA1919AKUV (see chapter "ALMEMO® Network technology").

**General features and accessories, ALMEMO® D6 sensors:**  
see page 01.08

### Technical Data

Digital carbon dioxide (CO <sub>2</sub> ) sensor (including A/D converter)		Filter cap	PTFE Diameter 18 mm Length appr. 41 mm
Measuring principle	non-dispersive infrared (NDIR) technology	Sensor connector	Plug connection
Sensor	2-beam infrared measuring cell	Grip	with socket, integrated electronics
Measuring range		Dimensions:	Diameter 20 mm Total length including the sensor 245 mm
FYAD00CO2B10	0 to 10,000 ppm	ALMEMO® connecting cable	fitted cable, 2 meters With ALMEMO® D6 plug
FYAD00CO2B05	0 to 5,000 ppm	<b>Digital atmospheric pressure sensor</b> (integrated in grip)	
Accuracy		Measuring range	700 to 1100 mbar
FYAD 00-CO2B10	±(100 ppm +5 % of measured value)	Accuracy	±2.5 mbar (at 23 °C ±5 K)
FYAD 00-CO2B05	±(50 ppm +3 % of measured value)	<b>ALMEMO® D6 plug</b>	
Nominal conditions	+25 °C, 1013 mbar	Refresh rate	1 second for all four channels
Temperature dependence	typical 2 ppm CO <sub>2</sub> / K in range 0 to +50 °C	Supply voltage	7.5 to 13 VDC
Response time t63	105 s for averaged output value, 60 s for instantaneous value	Current consumption	30 mA
Operative range	-40 to +60 °C / 0 to 95 % RH (non-condensing)		
Measuring interval	Moving average 165 seconds (= 11 current values of 15 sec.)		

### Type (including factory test certificate)

Digital CO<sub>2</sub> sensor with grip, fitted cable with ALMEMO® D6 plug, and integrated digital atmospheric pressure sensor

Measuring range 10 000 ppm

Measuring range 5 000 ppm

**FYAD00CO2B10**

ÖKD calibration KY96xx carbon dioxide concentration for digital sensor (see chapter Calibration certificates)

### Order no.

**FYAD00CO2B10**

**FYAD00CO2B05**



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