Systemtechnik
www.mb-systemtechnik.de

MB– Systemtechnik
Lütticher Straße 132
40547 Düsseldorf

Tel: 0211-92412575
info@mb-systemtechnik.de

Datasheet: CO2 traffic light digital display CO2-AD 100

Description
Ideal for monitoring CO2 concentration in buildings where people are present:
- Schools
- universities
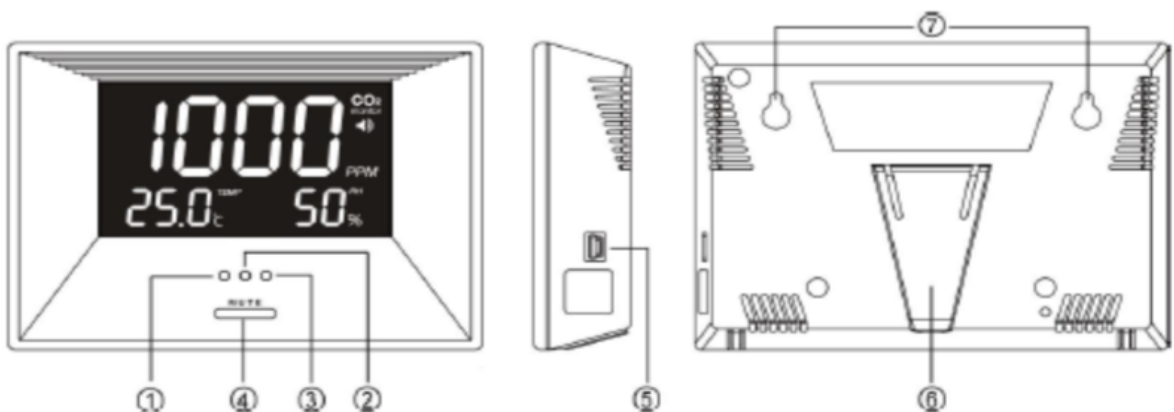- hospitals
- offices
- factories
- Public facilities

Technical data	CO$_2$-AD 100
Measuring method	Dual Wavelength NDIR (CO$_2$)
Measuring range	0 - 3.000 ppm (CO$_2$)
Measurement accuracy	± 50ppm + 5% of reading
Response	40 sec
Measuring interval	1,5 sec
Temperature dependence	0,2 % / °C
Ambient temperature	0 - 50 °C
Spannungsversorgung	230VAC Adapter
Measuring range temperature	0 - 50 °C und +-1° accuracy
Measuring range rel. humidity	20...90% rF und 5% accuracy
Housing dimensions	137x 99 x 51mm
Weight	450 g
Protection class	III nach EN 60730

Technische Änderungen
vorbehalten

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The instrument is easy to use and measures not only CO2 concentration, but also temperature and humidity. The instrument therefore gives important information about the air quality in enclosed spaces such as schools, lecture halls, hospitals, restaurants and all kinds of public buildings.

◊ Features:
LED display shows air quality via colored LEDs
Mute button for alarm activation/ deactivation
LCD backlight for easy reading in the dark

◊ Warnings:
If the instrument is not used for a longer period of time, please disconnect the mains plug
The measuring instrument is not suitable as a reference measuring instrument due to the tolerances

1. Green LED (<800ppm)
2. Yellow LED (800-1200ppm)
3. Red LED (>1200ppm&buzzer alarm)
4. Mute button
5. Power plug socket
6. Housing stand
7. Position for wall

1. 2 minutes warm-up time is requi
2. red after power on.
3. The LCD will display up to 4 dashes at 1 second intervals during warm-up.
4. The mute button is inactive during the warm-up.
5. After completion of the warm-up, CO2, temperature and humidity are displayed.

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How to use mude function:

PRESS

MUTE
Button

Mute - Press the button to activate the alarm tone. When the alarm tone is activated, the buzzer will increase when 1200ppm is reached. Note: Alarm is activated after first power on.

1. Safety instructions:
   Attention: Your safety is very important to us. For proper operation, please be sure to follow the safety instructions below.
   Handle the product with care and protect it from shock and vibration.
   Do not immerse it in water. Penetration of water will cause a short circuit and may damage the instrument
   Protect the instrument from excessive heat and humid environment. Keep sue heat sources or similar away from the instrument.
   Use only the enclosed power supply. Other power supplies with different specifications may cause damage. Damaged power supplies must not be used. Otherwise, there is a danger to life.

   Care instructions:
   To ensure that you enjoy our instrument for as long as possible, please observe the following care instructions.
   Cleaning- Disconnect the power plug before cleaning. It is best to use a damp cloth for cleaning. Do not use aggressive cleaners.
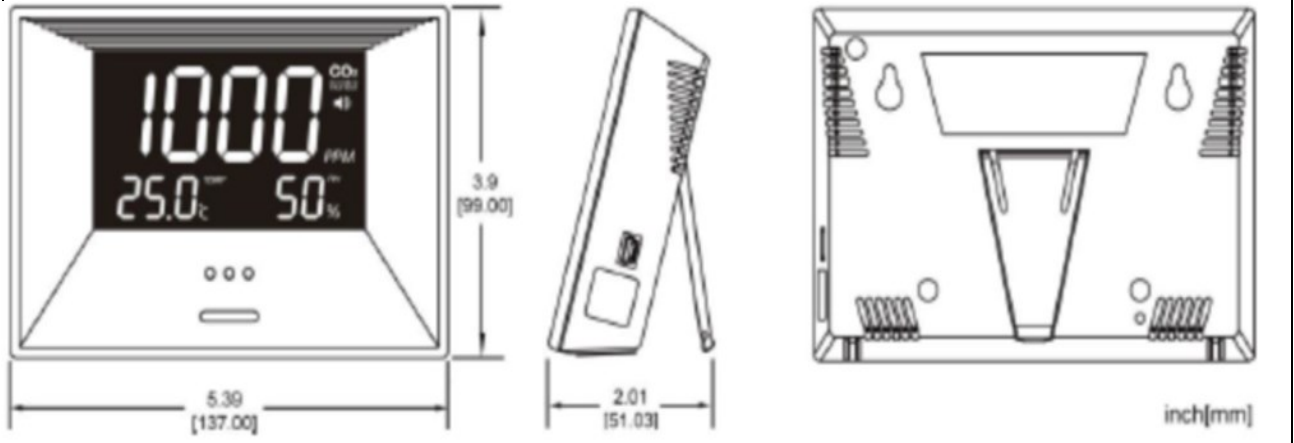   Repair- Please do not attempt to repair the instrument yourself. In case of damage, please contact your dealer.
   Air circulation- The openings on the housing allow sufficient ventilation of the installed sensors. When mounting the instrument, make sure that the openings are not covered.

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CO2 Specification:

Measuring range	0-3,000 ppm Display
Display resolution	1ppm at ~1,000ppm; 5 ppm at 1,001~2,000ppm; at 2,001~3,000ppm
Repeatability	=20ppm@400ppm
Response time	Approx. 2 minutes for 63% change value
Warm-Up Time	2 minutes at 22 °C
Zone LED Display	Green: <800ppm; Yellow 800~1200ppm; Red>1200ppm
Temperature:	
Measuring range	0°C to 50°C
Display resolution	0,1°C
Display unit	°C
Response time	20-30 Minutes
RH	
Measuring range	20%-90% RH
Display resolution	1%RH
Response time	<5 minutes for 63% change value
Working conditions	
Working temperature	0° bis 50 °C
	0~95% RH non condensing
Lagertemperatur	-20°C bis 60°C
Humidity conditions	
Energy supply:	
Power supply unit	USB or 5 VDC from an external AC/DC adapter (included)
DC Output	5 VDC, 100mA
AC Input	100~240 VAC, 0.2A 50/60Hz

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Dimensions:

Fault Icon	Description of the fault	Suggested Actions
Err3	The ambient temperature is outside the allowed specifications (0.50°C).	As soon as the device is used again in the permitted measuring range, the error message disappears.
Err5 Err6	EEPROM System Problem	Disconnect the power supply for several minutes and restart the device. If the error continues to be displayed, contact your dealer.