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Dostmann Electronic 5020-0111 CO2 Monitor with Data Logger Function User Manual

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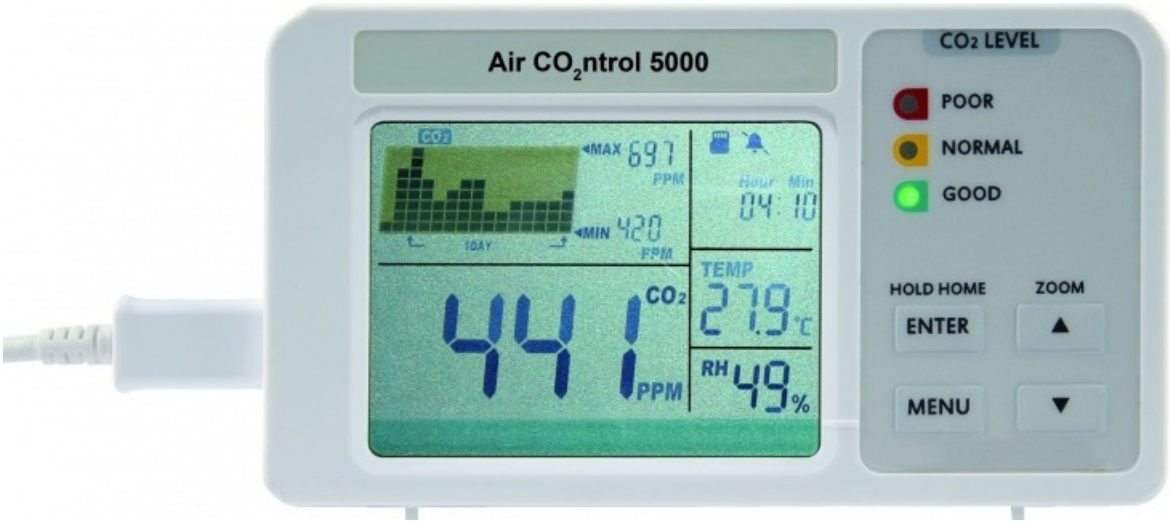
Dostmann Electronic 5020-0111 CO2 Monitor with Data Logger Function



Product Information

The Air Co2ntrol 5000 is a CO2 monitor with a data logger function that uses a micro-SD card. It is manufactured by Dostmann-electronic and has model number 5020-0111. The device has a large LCD display that shows the CO2, temperature, and humidity readings. It also has a trend display that shows the recent CO2, temperature, and humidity readings. The device has a zoom function that allows users to view the readings over different time intervals ranging from one minute to one week. The device also has an alarm function and an internal clock that allows it to be used as a data logger.

The device has the following specifications:

- Measurement Range: 0-5000ppm
- **Accuracy:** 1ppm (0-1000); 5ppm (1000-2000); 10ppm (>2000)
- Working Temperature:
- Storage Temperature:

Product Usage Instructions

1. Remove the device from its packaging and ensure that all components are present.
2. Place the device in the desired location for monitoring CO2 levels.
3. Insert the micro-SD card into the device.
4. Power on the device by pressing the power button.
5. View the CO2, temperature, and humidity readings on the LCD display.
6. Use the arrow button to toggle between the different readings.
7. Use the zoom function to view the readings over different time intervals.
8. Set an alarm if desired.
9. Use the internal clock to log data over time.
10. Dispose of the device properly when no longer needed.

Warnings and Precautions

- Do not expose the device to extreme temperatures or humidity.
- Do not expose the device to water or other liquids.
- Do not attempt to disassemble or repair the device yourself.

Introduction

Dear Sir or Madam,
Thank you very much for purchasing one of our products. Before operating the data logger please read this manual carefully. You will get useful information for understanding all functions.

Kindly note

- Check if the contents of the package are undamaged and complete.
- For cleaning the instrument please do not use an abrasive cleaner only a dry or moist piece of soft cloth. Do not allow any liquid into the interior of the device.
- Please store the measuring instrument in a dry and clean place.
- Avoid any force like shocks or pressure to the instrument.
- No responsibility is taken for irregular or incomplete measuring values and their results, the liability for subsequent damages is excluded!

Delivery contents

- CO2-Monitoring Unit with Datenlogger
- Micro USB cabel for power
- User Manual
- AC adapter
- Micro SD carte

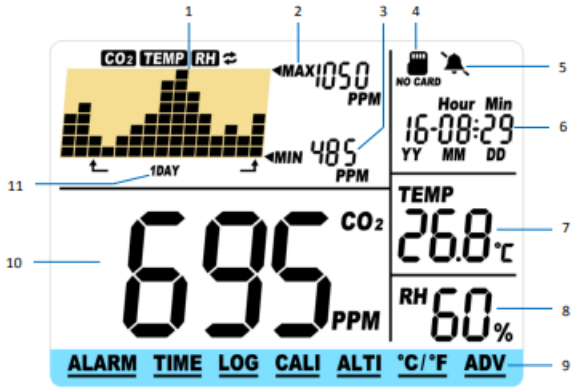
Features at a Glance

- CO2 Monitor; Tracer
- Chart with variable time Zoom Levels
- 2-Channel Low Drift NDIR Sensor
- Data Logger by SD card
- Real-Time clock
- 3 color LEDs for Easy-Reading

Operating Instructions

- **Initial Setup:** When first unboxing, plug in the unit to the included Micro USB (or one of your own) to almost any cell phone charger or USB power source. If successfully connected, 3 things will happen while booting up:
- 3 LEDs flash one by one
- The chart display shows the current software version & “Warm Up”
- The main display shows a countdown from 10
- Once the countdown is complete, your product is ready to use. No initial setup or calibration is needed.

1. Plug-in USB Power Cable
2. Plug-in SD Card



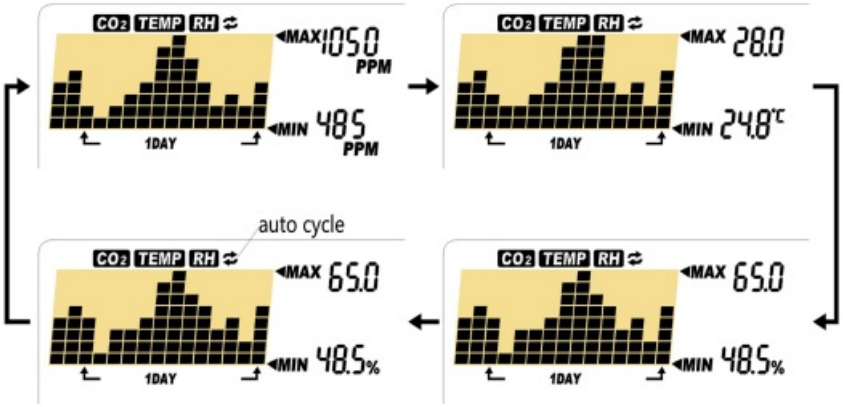
LCD Display

1. CO2/TEMP/RH Chart
2. Max Reading of Chart
3. Min Reading of Chart
4. Micro SD Card
5. Audible Alarm On/Off
6. Date and Time
7. Temperature Reading
8. RH Reading
9. Main Menu
10. CO2-Reading
11. Zoom Level of Time (indicates the chart’s period)

Trend Chart

- The trend chart (1) displays the past readings for CO2 and temperture and RH parameters.

- That can be toggled by using DOWN key: CO2, TEMP, RH. As show below:



Trend Chart Zoom

- Below is a table that shows the available Zoom Levels for all parameters, as well as the duration of each division for corresponding Zoom Levels:

Zoom Level (Time Span) (11)	Time Per Division
1MIN (minute)	5sec /div
1HR (hour)	5m/div
1Day (day)	2h/div
1WEEK(week)	0.5d/div

- Using UP will toggle the available Zoom Levels for each parameter. Note that in addition to the Zoom Levels for each parameter.

Max/Min

- At the top right corner of the display, there are two numerical indicators: Max (2) and Min (3). As the Zoom Level is changed, the Max and Min values will reflect the maximum and minimum values on the chart of the selected CO2 parameter. At startup, the unit will automatically display values for CO2.

Real-Time

- With the real-time (6) display at the top right corner of the LCD, the user can adjust the date and time by entering TIME mode.

SD Card For Logger

- The device will record data logger by SD card while it existed. It’s can record Date, Time, CO2, Temperature, RH, user can check and download logger by SD card reader.

Main Menu Functions

- The Main Menu (9) functions can be toggled through by using MENU. If the main menu is not brought up, the green bar will remain blank, leaving the UP / DOWN buttons to toggle between parameters and Zoom Levels, respectively.

- Pressing MENU once will bring up the main menu, with a flashing bar indicating the current choice. To select the function, press ENTER when the bar flashing over the current choice. Note that after 1 minute if nothing is pressed, the Main Menu will disappear and the device will revert to the normal state.

HOLD HOME

- To revert to start up settings at any point, hold ENTER for 3 sec until an audible beep. The device will revert to Home Setting, displaying “Back Home done.” Note that this is not the same as Restore to factory settings.
- Below is a table showing what main menu selection is made by pressing MENU multiple times as well as their functions. Note that the device will display “Pass” followed by the confirmed selection if selected correctly.

Function	Directions
ALARM	When ALARM is set ON, an audible alarm will resound if the CO2 level exceeds varying levels (depending on the border lever set). Once ALARM is selected (by pressing ENTER), use either UP or DOWN to toggle the selection from ON to OFF or vice versa. Press ENTER one more time to confirm. A regular bell icon will be displayed if the alarm is on; a silenced bell icon will appear on the screen if the alarm is set to be off. As soon as the acoustic alarm will sound, it can be temporarily muted by pressing ENTER. The alarm will resound if the CO2 value exceeds the upper border again.
TIME	This function allows the user to adjust the real-time, once TIME is selected, use UP and DOWN to adjust the current date and time, Press ENTER to comfirm.

LOG	This feature allows the user to see historical data recorded in the log at any point that is displayable on the chart. First make sure the desired Zoom Level is selected before enabling this function. Then once LOG is enabled, use UP and DOWN toggle between the time divisions to see all parameters' measurements for each division. Press ENTER once more to exit this mode.
CALI	Use this function to calibrate your device with an outside atmospheric CO2 level of ~ 400ppm. Select this mode, hold ENTER for 3 seconds until a beep and the chart will read "Calibrating", then place the device outside for 20min. To escape, press MENU. Make sure the device is far from a source of CO2, not in direct sunlight, and not exposed to water.

Function	**Directions**
ALTI	This feature provides an altitude correction to the CO2 level for increased accuracy. Select this feature, then use UP and DOWN to input the current altitude (look it up if unknown) in meters. Press ENTER once the altitude is correct.
ºC/ºF	Use this feature to toggle between Celsius and Fahrenheit for the temperature display. First use UP and DOWN, then ENTER when the desired one is selected.

ADV	This function toggles between 4 things when selected: changing the alarm and lights to suit levels For Low border, or For Hi border, or change the data log interval, or Restore factory setting. Restore factory setting will reset the device to factory settings and erase all stored data in the chart. To use any of these modes, hold ENTER for 3 seconds until an audible beep. Default settings of the traffic light: green LED: below 800 ppm, yellow LED: from 800 ppm and red LED: from 1200 ppm
(Return)	Exits the main menu. No options will be displayed on the green bar. A different audible beep be heard in this option.

Specifications

Typical test conditions, unless otherwise specified: Ambient Temp =23+/-3°C, RH=50%-70%, Altitude=0~100 meter

Measurement Spec

- **Operating Temperature:** 32°F bis 122°F (0°C bis 50°C)
- **Storage Temperature**: -4°F bis 140°F (-20°C bis 60°C)
- **Operating & Storage RH:** 0-95%, non-condensing
- CO2 Measurement
- **Measurement Range:** 0-5000ppm
- **Display Resolution:** 1ppm (0-1000); 5ppm (1000-2000); 10ppm (>2000)
- **Response Time** / **Warm-up Time:** <30 sec
- Temp. Measurement
- **Operating Temperature:** 32°F bis 122°F (0°C bis -50°C)
- **Display Resolution:** 0.1°F (0.1°C)
- **Response Time:** <20min (63%)
- RH Measurement
- **Range:** 5-95%
- **Resolution:** 1%
- **Power Requirements:** 160mA Peak, 15mA average bei 5.0V
- **Input:** 115VAC 60Hz, or 230VAC 50Hz, 0.2A
- **Output:** 5VDC 5.0W max.
- **Average active efficiency:** 73.77%
- **Noload power consumption:** 0.075W
- **Dimension:** 4.7×2.6×1.3inch (120x66x33mm)
- **Weight:** 103g only instrument without power supply

Rear View

Disclaimers:

- USB connection is for power supply only; no communication with PC. Unplugging the device may result in loss of most recent logged data on the chart.
- This device is not intended for workplace hazard CO2 monitoring, nor intended as a definitive monitor for human or animal health institutions, life sustenance, or any medical-related situation.
- We and the manufacturer assumes no responsibility for any damage or loss suffered by the user or any third party arising through the use of this product or its malfunction.
- We reserve the right to change the spec without notice.

Explanation of symbols

- This sign certifies that the product meets the requirements of the EEC directive and has been tested according to the specified test methods.

Waste disposal

- This product and its packaging have been manufactured using high-grade materials and components which can be recycled and reused. This reduces waste and protects the environment. Dispose of the packaging in an environmentally friendly manner using the collection systems that have been set up.

Disposal of the electrical device:

- Remove non-permanently installed batteries and rechargeable batteries from the device and dispose of them separately.
- This product is labelled in accordance with the EU Waste Electrical and Electronic Equipment Directive (WEEE). This product must not be disposed of in the ordinary household waste. As a consumer, you are required to take end-of-life devices to a designated collection point for the disposal of electrical and electronic equipment, to ensure environmentally-compatible disposal. The return service is free of charge. Observe the current regulations in place!
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References

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