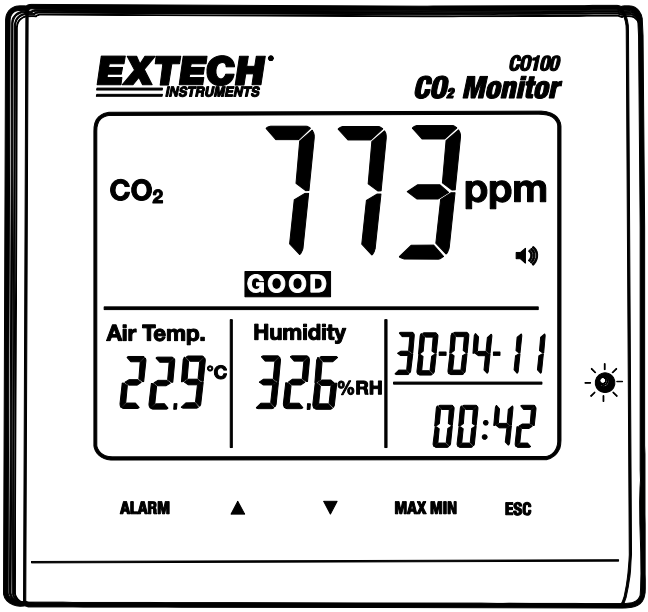
User's Guide

EXTECH® INSTRUMENTS
A FLIR COMPANY

Desktop Indoor Air Quality Monitor

Model CO100



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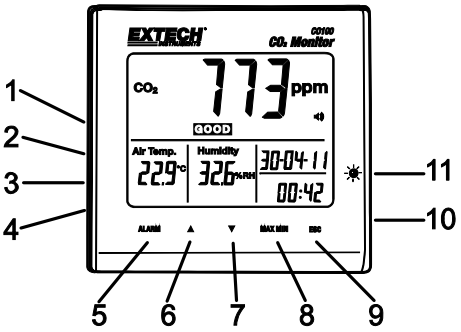
Introduction

Congratulations on your purchase of this Extech Meter. The Carbon Dioxide (CO_2) Monitor is designed for air quality control and health control by measuring Carbon Dioxide level in areas where CO_2 could be a concern. The measured CO_2 value in ppm (parts-per-million), Temperature, Humidity and Time will be displayed on the LCD along with three CO_2 status indications: Good (0 to 800ppm), Normal (800 to1200ppm), Poor (>1200ppm). An acoustic alarm sounds when the CO_2 level exceeds a defined level. This meter is shipped fully tested and calibrated and, with proper use, will provide years of reliable service.

Operation



1. **Power button** (rear)
   Turns the unit on or off.
2. **HOLD button** (rear)
   Freezes the current reading in the display.
3. **°C/°F button** (rear)
   Selects °C or °F
4. **Clock button** (rear)
   Press and hold this button for 2 seconds to enter into clock mode. Press the "▲" or "▼" button to adjust the flashing digits. Press the clock button again to step through the settings (day:month:year;hour:minute). Press the "ESC" button to exit the clock setting mode.
5. **Alarm button**
   Press the Alarm button once to activate the Alarm mode. The icon appears on LCD display. If the measured value exceeds the defined value, the alarm will sound and the display will flash. Press the button again to exit the Alarm mode.

   Alarm Value Setting
   Press and hold the ALARM button for 2 seconds to enter into setting mode. The icon will flash.
   Press the ▲or ▼ button to increase or decrease the value.
   Press the ESC button to exit the setting mode.

   "GOOD-NORMAL" and "NORMAL-POOR" Value Setting
   In the Alarm Value Setting mode, press the ALARM button to set the GOOD NORMAL threshold value. "GOOD NORMAL" will appear in the display. Adjust the value as needed. Press the ALARM button again to set the NORMAL POOR threshold value. "NORMAL POOR" will appear in the display. Adjust the value as needed.
   Press the ESC button to exit the mode.
6. **▲button**
   Press this button to increase a value. Press the "ESC" button to exit the function.
7. **▼button**
   Press this button to decrease a value. Press the ESC button to exit the function.
8. **MAX MIN button**
   Press the button once, the "MAX" icon appears and the Maximum measured value of CO2, temperature and humidity will be displayed on the screen. The display will be updated only if a higher value is measured. Press this button again, the "MIN" icon appears and the Minimum measured value of CO2 temperature and humidity will be displayed on the screen. Press ESC button to exit the function.

9. **ESC button**
   Press this button to exit the current mode.
10. **AC adaptor socket**
11. **Power ON LED**

Backlight

Touch the button area below the LCD and the backlight will turn on. It will turn off automatically after 20 seconds of inactivity. Press “ESC” button at any time to exit the function.

Maintenance

1. The meter should be cleaned with a damp cloth and mild detergent when necessary. Do not use solvents or abrasives.
2. Store the meter in an area with moderate temperature and humidity.

Specifications

Function	Range	Resolution	Accuracy
CO_2	0 to 9999ppm	1ppm	±75 ppm or ±5% of reading
Temperature	23 to 122°F (-5°C to 50°C)	0.1°	±0.±0.5°C/0.9°F
Humidity	0.1 to 90.0%	0.1%	±5%

Display	LCD with backlighting
Sampling Interval:	2 seconds
Overload Indication:	“-OL-”
Sensor Type	CO_2: NDIR (non-dispersive infrared) technology
Operating Conditions	-5°C to 50 °C (23 oF to 122 oF) at < 90 % RH
Storage Conditions	-5°C to 50 °C (23 oF to 122 oF) at < 90 % RH
Power Supply	110V ~ 220V AC, output 6.0V DC ≥ 500mA (supplied)
Dimensions / Weight	117x102x102mm (4.6x4x4”); 204g (7.2 oz.)