

CD-3A

Carbon Dioxide Analyzer

Introduction

The Model CD-3A Carbon Dioxide Analyzer provides a continuous and accurate measurement of gases containing up to 15% CO₂. The Model CD-3A has the rapid response necessary for breath-by-breath analysis during respiration. It is also ideal for laboratory applications requiring high accuracy and sensitivity.



Features:

- Wide range—0 to 15% CO₂
- High accuracy and sensitivity
- Rapid response—ideal for accurate breath-by-breath measurement
- End Tidal CO₂ Display
- Microprocessor controlled—reliable, low maintenance operation

The Gold Standard in laboratory carbon dioxide analysis for over 20 years, worldwide.

Model P-61B Sensor



Capabilities

A complete Model CD-3A consists of a sensor, readout/control unit, and cable. When the sample gas is passed through the sensor, a voltage that is a function of the carbon dioxide concentration of the gas is generated. This voltage is fed to the readout/control unit via a connecting cable.

The optional R-1 (Single Channel) or R-2 (Dual Channel) Flow Control Unit can be used to draw the sample through the sensor. Each flow control unit contains a pump, a needle valve, and a flowmeter for each channel. Other gas handling equipment can be used if preferred.

Model R-1 Flow Control

[Optional]



Model CD 3-A Specifications

Speed of Response:

24 or 400 milliseconds, user selectable, to 90% of final value for a step change in carbon dioxide concentration.

Accuracy:

$\pm 0.02\%$ carbon dioxide or 1% of the reading, whichever is larger

Sensitivity:

$\pm 0.01\%$ carbon dioxide

Resolution:

Digital Display: $\pm 0.01\%$ carbon dioxide

Range:

0-15% carbon dioxide

Display:

Continuous display of CO₂ concentration or End Tidal for each breath

Analog Output:

0 to 7.5V for 0 to 15% CO₂

Sample Flow Rate:

10-1000 ml/min

Stability:

$\pm 0.02\%$ carbon dioxide at 5% in 8 hours maximum drift

Sensor Tubing Connections:

(IN/OUT) 1/8 / 1/8 inch OD stainless steel



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