

FOXBOX

A Rugged, Portable, Fully Integrated Respirometry System



The Foxbox Integrated Respirometry System



The Foxbox is a field portable combined oxygen and carbon dioxide analysis instrument including a variable pump and mass flow meter integrated into a compact, dustproof, waterproof case. Equally at home in the lab or the field, the Foxbox is the core of a complete respirometry system.



Onboard Data Storage:

Capable of logging data without a computer, the Foxbox can store 8190 lines of data for later export during field work.

Expandable:

With 2 analog inputs, the Foxbox allows the user to connect additional instruments (e.g., water vapor or temperature measurement devices) to incorporate into the data output stream.

Barometric Pressure Compensation

Standard in our analyzers, barometric pressure compensation eliminates errors caused by ambient pressure variation

Three year warranty

Sable Systems instruments are warranted to be free of defects in material or workmanship for a period of three (3) years from date of purchase. See website for warranty policy.

Lifetime Technical Support

Our technical support team will help you overcome any challenges you may face with equipment setup as well as provide advice and assistance on future applications.

Optional Configurations and Accessories:

FoxBox O₂ Only: The FoxBox is available without a CO₂ sensor

FoxBox BP: For ultimate portability, order a rechargeable Li-ion battery pack (4.8 A-H) lasting up to 12 hours run time.

Expedata with Foxbox Daemon: Expedata data acquisition software allows simple analysis of respirometry data. The Foxbox Daemon translates the serial data stream into an expedata file.

Specifications:

Sensor Type: O₂: fuel cell, CO₂: infra-red

Oxygen Sensor Life: 2 years in normoxia, typical

Range: O₂: 0-100%, CO₂: 0-5%

Accuracy: O₂: 0.1% typical, 2-100%, CO₂: 1% typical over range of 0-5% (reduced accuracy to 10%)

Resolution: O₂: 0.001%, CO₂: 0.0001%-0.01% depending on concentration

Drift: O₂: at constant temperature and O₂ concentration <0.02% per hr, CO₂: at constant temperature and 0% CO₂ <0.001% per hr

Weight: 10lbs/5kg (12lbs/6kg with packaging)

Dimensions: W: 12in/31cm, H: 7in/18cm, D: 12in/31cm

Power Requirements: 12-15 VDC nominal, 50-500mA consumption, universal AC adapter supplied.

Flow Rate: 10-1,700mL/min

Flow Accuracy: 2% of reading, typical

Flow Resolution: 0.1mL/min from 0-99.9mL/min, 1mL/min above 100mL/min

Inputs: Analog - 2 BNC analog configurable for voltage or temperature

Analog Outputs: BNC O₂, CO₂, 2 additional user selectable BNC

Digital Outputs: RS-232 (serial)

Internal Data Storage: 8190 samples, all measurements

Recording Interval: User selectable from 0.1sec to 1hr

Operating Conditions: 0-50 °C, non-condensing

Temperature Accuracy: 0.2 °C typical from -5 to 60 °Ct

Contact Sable Systems.

We encourage you to discuss your application with us.

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On the Web: www.sablesys.com

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