MOXUS Metabolic Cart

Using Legendary CD-3A & S-3A Gas Analyzers

The Standard for Respiratory Gas Measurement for over 45 years

Ideal For: Research, Teaching and Clinical Studies
Unsurpassed Accuracy / Fastest Response Time
Unwavering Stability means Data you can depend on

Human Performance Testing:
VO_2 Max / Sub-Max Testing for Elite Athletes,
Obese Adults, Small Children, Geriatric, & Rehab
Every Breath Recorded Accurately & Unerringly

Resting Energy Testing: Canopy Systems
Flow variable for every Test Subject: Small Children to Super Obese Adults ensuring correct REE / RMR

Easy to use Software:
Quickly guides you through set up and calibration

Cardiac Output Option:
CO_2 Re-breathing using the Fick method

Animal Respirometry Option:
Single or Multi-Channel for Mice, Rats & other lab animals

Features Exclusive to AEI MOXUS

Unique Cardio Output Option:
Carbon Dioxide Re-breathing using the Fick Method

4.2 Liter Active Mixing Chamber:
Insuring precise breath measurements

New T/P/H Monitor
Temperature, Humidity & Pressure Monitoring

Duel Stage Nafion Tube drying system:
Eliminating water vapor errors

Inhalation Side Flow Sensor:
Not contaminated by testing

Easy connect to Douglas Bag Systems
For validation and analysis

sales@aeitechnologies.com
Phone 630-548-3545

AEI TECHNOLOGIES
Metabolic Measurement System

www.aeitechnologies.com
US Toll Free 800-793-7751

Standard Features:

- S-3A/I Oxygen Analyzer
- CD-3A Carbon Dioxide Analyzer
- Breath Volume Measurement System
- Sample Pump and Flow Controller
- Windows Software and Interface Package
- 2 Channels for external analog instruments
- RS-232 Connection for Treadmills and Ergometers
- Heart Rate Interface with Polar monitor
- 4.2 Liter Active Mixing Chamber
- Efficient Nafion-based desiccant box with molecular sieve & silica gel indicator
- Two-Way Breathing Valve and Tubing Connections with Headgear and Mouthpieces
- Heavy-Duty Cart with articulating support arm
- Calibration Gases: Two tanks primary laboratory standard
- New Continues Temperature, Humidity & Pressure Monitoring
- Easily connect to Douglas Bag Systems for validation and analysis

Optional Features:

- Laptop Computer and Color Ink Jet Printer
- System setup, calibration, and training at your facility
- Canopy System for Resting Energy Measurement
- Animal Respirometry System
- Desktop Computer; with 17 Inch Flat panel Monitor
- MOXUS Software and Interface Box available for users with their own analyzers
- System minus computer and / or cart – lower cost and lower shipping charges
- Alcohol Burn Validation Kit Available
- Cardiac Output (CO_2 Re-breathe) Available
- Extended Warranties Available

Specifications for S-3A/I Oxygen Analyzer:

Speed of Response: To 90% of final value in less than 100 milliseconds for a step change in oxygen concentration

Accuracy: ± 0.02% O_2 on the percent oxygen scale, within working range

Sensitivity: ± 0.001% Oxygen

Resolution: Digital Display: ± 0.01 on Oxygen

Working Range: Calibration gas value ± 5% of full scale value

Stability: ± 0.01% oxygen in 24 hours with constant temperature and pressure

Analog Outputs: Buffered 0-100% O_2 - (0 to 10 Volts)

Ambient Temperature: 0-40°C

Sample Flow Rate: 10-300 ml/min, 250 ml/min recommended for most applications

Display: Continuous display of O_2 concentration

Calibration Gases: Two Tanks Primary Labortor Standard

Specifications for CD-3A Carbon Dioxide Analyzer:

Speed of Response: To 90% of final value in less than 100 milliseconds for a step change in carbon dioxide concentration

Accuracy: ± 0.02% carbon dioxide or 1% of the reading, whichever is larger

Sensitivity: ± 0.01% carbon dioxide

Resolution: Digital Display: ± 0.01% carbon dioxide

Working Range: 0-15% carbon dioxide

Stability: ± 0.02% carbon dioxide at 5% in 8 hours maximum drift

Analog Output: Buffered 0 to 15% CO_2 - (0 to 7.5 Volts)

Ambient Temperature: 0-40°C

Sample Flow Rate: 10-1000 ml/min

Display: Continuous display of CO_2 concentration, or End Tidal for each breath

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