



“We purchased twenty Respiration Packages with support from the Howard Hughes Medical Institute. With minimal training, all 150 student teams were able to measure the effects of temperature on respiration rates in mice and lizards. The Qubit Respiration Package certainly works as advertised.” *Dr. Bob Hodson, Department of Biological Sciences, University of Delaware, Newark, Delaware*

Q-BOX SERIES Q-BOX RP1LP LOW RANGE RESPIRATION PACKAGE



A field-portable open circuit respirometry system for measuring CO₂ and O₂ exchange from a wide range of organisms. Very low metabolic rates may be measured in open circuit mode using the high resolution CO₂ analyzer and O₂ analyzer in closed circuit mode. As in all of Qubit's Q-BOX packages the components are modular so you may choose the configuration that best meets your application. Add components to expand your Q-BOX capabilities as your research and teaching needs evolve.

Features:

- NDIR CO₂ Analyzer (0 - 2000 ppm Range)
- Fuel Cell O₂ Analyzer (0 - 100% O₂ Range)
- Gas Pump (3 LPM no load)
- Mass Flow Monitor (2 LPM)
- Temperature Sensor
- Small Chamber (1.6 x 10 cm)
- Large Chamber (3.8 x 20 cm)
- Gas Supply Bags
- Six Channel Data Interface
- Data Acquisition Software
- Optional Other Size Chambers
- Optional Battery Pack
- Rugged Weatherproof Case

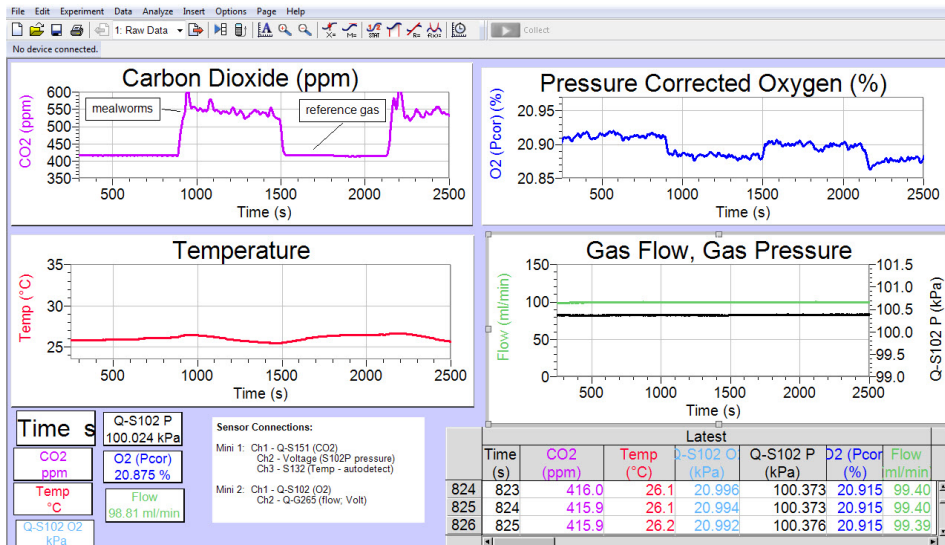
Applications:

- Insect and Small Animal Respirometry
- Atmospheric Monitoring
- Headspace Monitoring (Fermentation)
- Soil and Microbe Respiration
- Resting Metabolic Rate
- Response to Exercise
- Response to Diet
- Response to Environment
- Lab and Field Studies
- Hibernation Studies etc.

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SOFTWARE



Data from 6 mealworm beetles (Open-Flow System)



All of Qubit's Q-BOX Packages include the same data acquisition software. You do not need to learn a different program for each suite of instruments. The software is powerful, but intuitive, so that novices are collecting and manipulating data within minutes of set up. Qubit supplies set-up files for each Q-BOX configuration with default displays, experimental periods and all calculations in place. Defaults can be changed quickly and easily as required. You need to buy the software only once, no matter how many types of Q-BOX package you purchase. Free upgrades are provided on request. *Q-Box sensors and analyzers are compatible with any data acquisition system you may already possess.*

SOFTWARE FEATURES

- 6 Data Channels
- Variable Data Acquisition Rate
- Graph, Table and Meter Displays
- Suite of Analysis Functions: (Statistics, Curve Fit, Integration etc.)
- Control Devices Using Data Input
- Multi-Page Reporting
- Data Replay Function
- Simple Equation Input and Editing
- Numerous Mathematical Functions

STANDARD Q-BOX PACKAGES

- RP1LP Low Range Respirometry
- RP2LP High Range Respirometry
- CO650 Plant CO₂ Analysis
- SR1LP Soil Respirometry
- NF1LP Nitrogen Fixation
- HR1LP Human Respirometry
- AQUARESP Aquatic Respirometry
- BBB1LP Human Exercise Physiology
- OX1LP Dissolved O₂

CUSTOMIZE YOUR Q-BOX

The Q-BOX concept is all about flexibility. Do you want a system that can be used to measure insect respirometry, photosynthesis, human metabolic rate and atmospheric monitoring? Do you need to share your Q-BOX with a colleague from another discipline? Please contact us and we'll show you how the various components required for diverse studies can be configured in a common system.



Each Q-BOX component is easily removed from the Q-BOX and replaced with whatever new component you require. All of the analyzers, pumps and sensors etc. can also be used as stand-alone items independent of the Q-BOX. You may use our software and interfaces for collecting data from analyzers in stand-alone mode.



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