Q-BOX SERIES Q-BOX RP2LP HIGH RANGE RESPIRATION PACKAGE

The Q-Box RP2LP package provides the user with all of the materials required to measure the metabolic rate of animals such as mammals, reptiles and amphibians, in an open-flow gas exchange system. 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:

- CO_2 Infrared Analyzer (0 – 10% Range)
- Fuel Cell O_2 Analyzer (0 - 100% O2 Range)
- Mass Flow Monitor (2 LPM)
- Gas Pump (3 LPM no load)
- T-piece assembly and flow meter
- Temperature Sensor
- Flow Through Chamber (8.5 ID x 20cm)
- Gas Supply Bags
- Six Channel Data Interface
- Data Acquisition Software
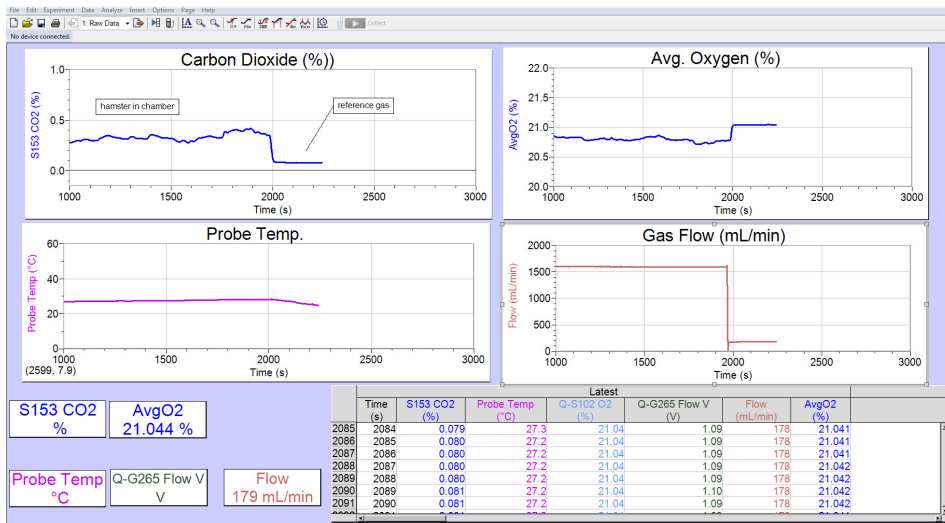- Optional Battery Pack
- Rugged Weatherproof Case

Applications:

- Animal Respirometry
- Headspace Monitoring (Fermentation)
- Resting Metabolic Rate
- Response to Exercise
- Response to Diet
- Response to Environment
- Lab and Field Studies
- Hibernation Studies etc.

SOFTWARE

Sample Data from a Hamster

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 packages 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 of 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 CO_2 Analysis
- SR1LP Soil Respirometry
- NF1LP Nitrogen Fixation
- HR1LP Human Respirometry
- AQUA 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 analysers, 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.