Turnkey Room Calorimetry System

Sable Systems’ Promethion room calorimetry system incorporates the GA-6 dual channel combined $\text{O}_2$, $\text{CO}_2$, and $\text{H}_2\text{O}$ analyzer with an FG-1 flow generator providing a compact, complete respirometry system capable of synchronously recording all measured parameters in a completely traceable manner.

**Traceable**
All raw data are synchronously recorded and stored to allow the user to apply the latest algorithms for data analysis. No data are ever lost or compromised.

**Versatile**
Designed for use with rooms, the system can easily be adapted to smaller chambers or masks with no additional expense.

**Background Baselining**
The patent pending GA-6 dual analyzer chain allows for baselining without interruption of data acquisition.

**Water Vapor Dilution Compensation**
Relative humidity is monitored in both incurrent and excurrent air streams, allowing mathematical compensation for water vapor dilution and practically eliminating scrubber chemicals.

**Lifetime Technical Support**
Our technical support team will ensure you get the most out of your equipment and provide advice and assistance on future applications.

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**GA-6 Specifications**

- **Sensor Type:** $\text{O}_2$: fuel cell, $\text{CO}_2$: dual wavelength, non-dispersive infra-red, $\text{H}_2\text{O}$: thin-film capacitive
- **Oxygen Sensor Life:** 2 years in normoxia, typical easily replaced
- **Range:** $\text{O}_2$: 0-100%, $\text{CO}_2$: 0-5%, $\text{H}_2\text{O}$: 0-100%RH
- **Accuracy:** $\text{O}_2$: 0.1% typical, 2-100%, $\text{CO}_2$: 1% of reading typical, $\text{H}_2\text{O}$: 1% typical 0-95%RH, better than 2% 95-100%
- **Resolution:** $\text{O}_2$: 0.001%, $\text{CO}_2$: 0.001%-0.001% depending on concentration, $\text{H}_2\text{O}$: 0.001%RH, 0.01°C dewpoint
- **Drift:** $\text{O}_2$: at constant temperature and [O$_2$] <0.02% per hr; $\text{CO}_2$: at constant temperature and O% [CO$_2$] <0.001% per hr; $\text{H}_2\text{O}$: At constant temperature with constant N$_2$ flow < 0.01%RH/hr
- **Flow Rate:** 400-2000mL/min per channel
- **Internal Temperature Range:** Room Temperature +5 to 50 °C
- **Internal Temperature Accuracy:** 0.2 °C typical from -5 to 60 °C
- **Internal Temperature Resolution:** 0.001 °C
- **Barometric Pressure Resolution:** 0.0001kPa
- **Barometric Pressure Accuracy:** 0.1% of reading

**FG-1 Specifications**

- **Flow Rate:** 50-250L/min
- **Flow Accuracy:** 2% of reading, typical
- **Flow Resolution:** 0.1L/min

**Shared Specifications**

- **Weight:** 120lbs/55kg (136lbs/62kg with packaging)
- **Dimensions:** W: 28in/71cm, H: 31in/79cm, D: 28in/71cm
- **Power Requirements:** 12-15VDC nominal 5Amp consumption, universal AC adapters supplied
- **Digital Interface Protocol:** Sable Bus CAN Protocol, Direct digital data transfer
- **Operating Conditions:** 0-50 °C, non-condensing

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**Contact Sable Systems.**

We encourage you to discuss your application with us.