

GSI/m BREATH ANALYSIS AND SAMPLING

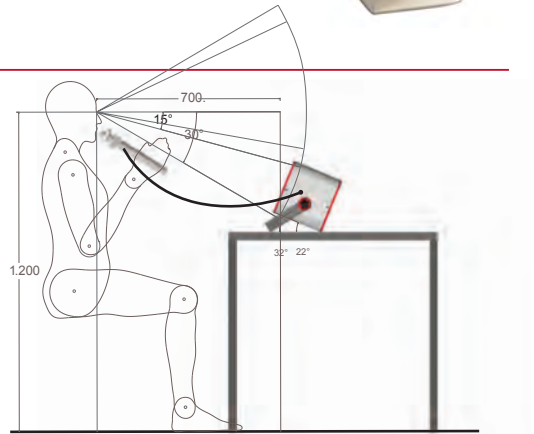
Multiple Breath Version

The device is developed to allow the subject breathing in a regular way and sample multiple breathing acts. Parameters can be set and changed to select the portion of interest in breath, according to the study performed. Breath can be then sample in desorption tubes or bags and analyzed with standard methods. It is therefore the necessary tool when a bigger and standardized amount of breath is required in molecules profiling and allow an easy, controlled and repeatable breath analysis.



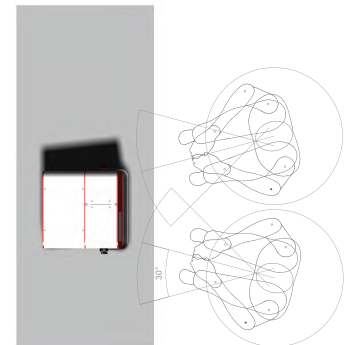
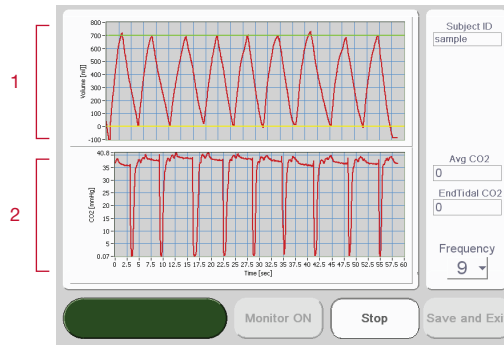
Technical features

- + real time flow (1) and CO₂ (2) measurement
- + two ways non-rebreathing valve to allow continuous breathing of the subject
- + disposable filter and sterilizable components
- + automatic report generation and USB memory stick data storage
- + touch LCD panel
- + userfriendly software interface
- + ergonomic design by Isao Hosoe
- + external triggering



Trigger output

- + range: TTL 5V compatible
- + max output current: 20mA



Sensors Technical Specification

| Specification | CO ₂ | Airflow volume |
|-------------------------------|-----------------------------------|---|
| Sensor Technology | NDIR mainstream capnograph | By fixed orifice differential pressure transducer |
| Response Time (10-90%) | Less than 60 ms | 10 ms |
| Measurement Range | 0 - 150 mmHg (0 - 19.7%) | 2 - 180 LPM |
| Accuracy | ± 2 mmHg in the 0 - 40 mmHg range | ± 3% |
| Resolution | 0.1 mmHg | 0.01 LPM |
| Sampling Rate | 50Hz | 50 Hz |