Measure Respiration or Photosynthesis with Qubit CO_2 Analyzers

CO_2 Infra-Red Gas Analyzers

CO_2 Gas Exchange in Animals,Plants, Soil and Environment

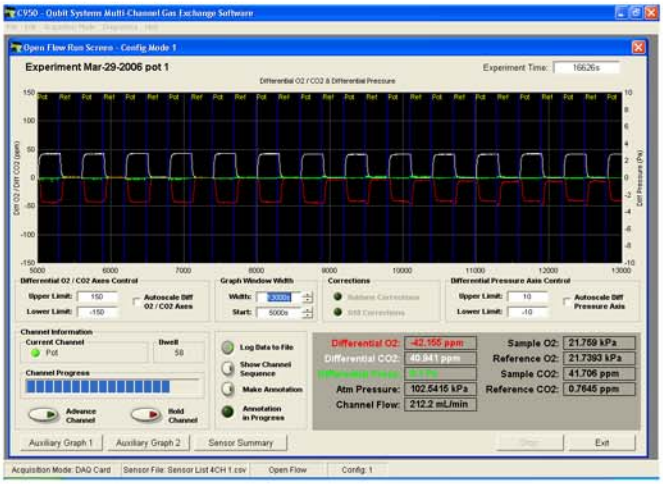
Qubit Systems produces non-dispersive infrared CO_2 analyzers that measure CO_2 in 0 to 2000 ppm range (**S157**) or in 0 to 10% range (**S158**). Custom made CO_2 analyzers for higher CO_2 levels can also be provided. The S157 CO_2 Analyzer is ideal for CO_2 exchange measurements with leaves, insects, small animals, soil or organisms with a low metabolic rate. For measurements with larger or more active animals, and in situations where high CO_2 fluxes may occur the S158 is preferred. The CO_2 analyzers may be used in a flow-through gas exchange configuration for instantaneous and continuous measurements of CO_2 exchange or in stop flow or closed system modes for measurements at low activity levels. When used with the S104 Differential Oxygen Analyzer, or S108 Absolute Oxygen Analyzer, Respiratory and Photosynthetic Quotient can be calculated. We recommend using these analyzers with our C950 Gas Exchange Software or other data acquisitions software plus data aquisition interface.

Key Features:

- Switchable ranges (low and high)
- digital display
- Non-dispersive infrared technology
- Modulated infrared light source = no moving parts
- 0 – 5 V analog output at both range settings
- Optional battery pack for field use
- Compact and portable
- Weatherproof case

Software:

We recommend Qubit's C950 gas exchange software (optional) for use with the S157 and S158 CO_2 analyzers. The software calculates all major respirometry and photosynthesis parameters, and corrects data for variations in environmental conditions



Sample References

- Jumbo-Lucioni P et al. (2010) BMC Genomics 11: 297- 309
- Krachler RF et al. (2009) Biogeosciences Discuss. 6: 491–514
- Scarpeci TE, Valle EM. (2008) Plant Growth Regul. 54: 133-142
- Busi MV et al. (2006) The Plant Journal 48: 873-882

N America: (888) 262-2219
International: (613) 384-1977
www.qubitsystems.com
1573 John Counter Blvd, Kingston, Ontario, Canada K7M 3L5

For more information contact us at
info@qubitsystems.com