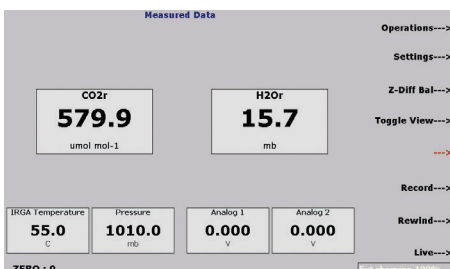


## Product Features

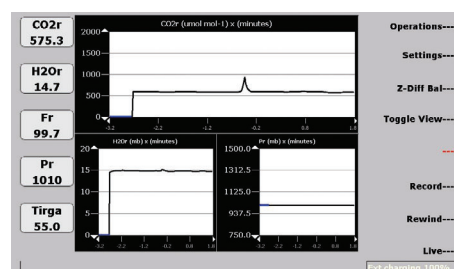
- High precision instrument featuring 2 independent, non-dispersive infrared gas analyzer for both CO<sub>2</sub> and H<sub>2</sub>O (Absolute Analyzer)
- CO<sub>2</sub> measurement range: Up to 10000 umol mol<sup>-1</sup>
- H<sub>2</sub>O measurement range: 0-75 mb
- Fast response and long term stability with built-in Auto Zero
- Fully compensated for changes in temperature, pressure and foreign gas broadening
- Large, full color 7" transfective LCD with optimized viewing angle (30°)
- Large numeric and graphical presentation of data
- Unlimited data storage (internal memory and USB flash drive)
- Analog and digital (USB) output
- Built-in sampling pump with mass flow controller
- Powerful, intuitive user interface and software
- On-line Help
- Remote display capability
- Internal 7.2V Li-Ion rechargeable battery (optional) for portability



## Numeric Display



## Graphical Display



## Applications

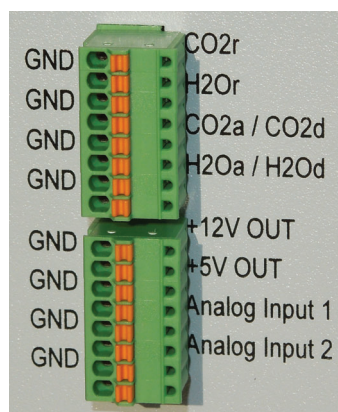
- Plant physiology
- Soil CO<sub>2</sub> efflux
- Whole canopy assimilation
- Growth cabinets and environmental control rooms
- Global change studies
- CO<sub>2</sub> sequestration
- Forest & agricultural meteorology
- Air-sea surface exchange (pCO<sub>2</sub>)
- Animal/insect respiration
- Environmental toxicology
- Volcanology
- Bioremediation



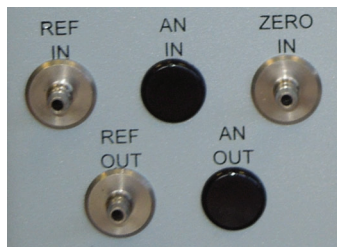
## Powerful Software

Simple, intuitive and menu-driven software is designed into the system for system setup, operation, recording and data management. On-line help is available throughout the software to guide you every step of the way.

*Convenient, pluggable terminal block for analog signals.*



*Gas connections for direct connection to gas analyzers*



*For further information, please contact us at:*

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## Technical Specifications

<b>Analysis Method</b>	Non-dispersive infrared, configured as an absolute absorptiometer with micro-processor control of linearization. Two independent gas analyzers simultaneously measure absolute CO <sub>2</sub> and H <sub>2</sub> O from a single gas stream. All measurements corrected for temperature and pressure.
<b>CO<sub>2</sub> Measurement Range</b>	0-10000 µmol mol <sup>-1</sup>
<b>CO<sub>2</sub> Precision</b>	<ul style="list-style-type: none"> <li>• 0.2 µmol mol<sup>-1</sup> at 300 µmol mol<sup>-1</sup></li> <li>• 0.5 µmol mol<sup>-1</sup> at 1750 µmol mol<sup>-1</sup></li> <li>• 3.0 µmol mol<sup>-1</sup> at 10000 µmol mol<sup>-1</sup></li> </ul>
<b>H<sub>2</sub>O Measurement Range</b>	0-75 mb
<b>H<sub>2</sub>O Precision</b>	<ul style="list-style-type: none"> <li>• 0.015 mb at 0 mb</li> <li>• 0.020 mb at 10 mb</li> <li>• 0.030 mb at 50 mb</li> </ul>
<b>Bandwidth (CO<sub>2</sub> and H<sub>2</sub>O)</b>	10 Hz (sampling rate). Sample data is averaged and output every 1.6 seconds.
<b>Pressure Range</b>	65-115 kPa
<b>Air Sampling</b>	User adjustable from 50-100 cc min <sup>-1</sup> using integral DC pump with mass flow controller.
<b>Auxiliary Port</b>	For connection to external sensors.
<b>Terminal Block</b>	Two 8 pin terminal blocks for simple connection to external devices.
<b>Digital Output</b>	<ul style="list-style-type: none"> <li>• USB-Mini b (Host)</li> <li>• 2 Ea. USB for use with external devices (Memory stick, USB Mouse, etc.).</li> </ul>
<b>Analog Output Channels</b>	4 Analog output channels available. Users can configure system to output CO <sub>2</sub> reference, CO <sub>2</sub> analysis, CO <sub>2</sub> differential, H <sub>2</sub> O reference, H <sub>2</sub> O analysis and H <sub>2</sub> O differential.
<b>Analog Output Range</b>	0-2.5V or 0-5V
<b>Analog Input Channels</b>	2 Analog input channels available for use with external sensors
<b>Analog Input Ranges</b>	0-1V or 0-5V
<b>Data Storage</b>	512 MB flash memory for programming and data storage. Unlimited data storage using USB thumb drives (memory sticks).
<b>Microprocessor Speed</b>	800 MHz
<b>Display</b>	7.0" WSVGA transfective, color LCD
<b>User Input</b>	27 key tactile keypad
<b>Power Supply (Optional)</b>	Internal, rechargeable 7.2V Li-ion battery providing up to 10 hours continuous use. Power supply/charger included.
<b>Operating Temperature Range</b>	0-50 °C, non-condensing. In dirty environments, external air filtration may be required.
<b>Enclosure</b>	Rugged, ergonomic, lightweight aluminum with polyurethane base.
<b>Dimensions</b>	28 cm (W) x 14.5 cm (D) x 24 cm (H)
<b>Weight</b>	3.8 kg (without battery). 4.3 kg (with optional battery).
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