

## G100 TECHNICAL SPECIFICATION

### POWER SUPPLY

<b>Battery type</b>	Li Ion
<b>Battery life</b>	10 Hours (8 hours with pump)
<b>Battery lifetime</b>	>300 Cycles
<b>Battery charger</b>	5v DC external power supply and internal charging circuit
<b>Charge time</b>	3 Hours
<b>Alternative power</b>	USB connector DC power supply

### GAS RANGES

<b>Gases Measured</b>	CO <sub>2</sub>	By custom dual wavelength infra-red cell with reference channel
	O <sub>2</sub> (Optional)	By internal electrochemical cell
<b>Oxygen cell lifetime</b>	Approximately 3 years in air	
<b>Range</b>	CO <sub>2</sub>	0-20%
	O <sub>2</sub>	0-100%
<b>Measurement Accuracy</b>	Gas	
	CO <sub>2</sub>	<b>Accuracy:</b> ±( 1% of range+ 2% of reading) at reference conditions <sup>1</sup> <b>Temperature dependence:</b> ±0.2% reading /°C (typical at 5% CO <sub>2</sub> ) <b>Pressure dependence:</b> ±0.02% of reading/hPa (typical at 5% CO <sub>2</sub> )
	O <sub>2</sub>	±1.0% Full Scale @ constant temperature and pressure ±2.0% Full Scale over operating temperature range
<b>Response time, T<sup>90</sup></b>	CO <sub>2</sub>	≤20 seconds
	O <sub>2</sub>	≤60 seconds

<sup>1</sup> Conditions during factory calibration, typically 20°C, 1000mBar

### FACILITIES

<b>Temperature (Optional)</b>	X2 using optional probes, range 0°C to +50.0°C
<b>Temperature accuracy, typical</b>	±0.2°C from 32 to 44°C, ±0.5°C over the rest of the range
<b>Barometric pressure</b>	800-1200 mbar
<b>RH measurement (Optional)</b>	RH Probe 0-100% RH non condensing
<b>RH accuracy</b>	±1.5%RH across the range
<b>Visual and audible alarm</b>	User selectable CO <sub>2</sub> and O <sub>2</sub> alarm levels
<b>Communications</b>	USB type B mini-connector, HID device class
<b>Data Storage</b>	1000 reading sets + 270 events

**G100**  
**TECHNICAL SPECIFICATION**

PUMP	
<b>Flow</b>	100cc/min typically

ENVIRONMENTAL CONDITIONS	
<b>Operating temperature</b>	5°C – 40°C
<b>Relative humidity</b>	0 - 95% non condensing (RH Probe 0-100% non condensing)
<b>Barometric pressure</b>	±500mbar from calibration pressure
<b>IP rating</b>	IP40

PHYSICAL	
<b>Weight</b>	495 grams
<b>Size</b>	L 165mm, W100mm, D55mm
<b>Case Material</b>	ABS / Polypropylene with Silicone Rubber Inserts
<b>Keys</b>	17 Resin capped Silicone rubber keys
<b>Display</b>	Liquid crystal display, 128 x 64 pixel With RGB LED back-light
<b>Gas sample filters</b>	Built-in gas dryer tube to remove moisture User replaceable PTFE water trap filter

⚠ Note: Due to Geotech’s continuous programme of improvement, this specification is subject to change without prior notice.

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