

G150 TECHNICAL SPECIFICATION

POWER SUPPLY

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

GAS RANGES

Gases Measured	CO ₂	By custom dual wavelength infra-red cell with reference channel
	O ₂ (Optional)	By internal electrochemical cell
Oxygen cell lifetime	Approximately 3 years in air	
Range	CO ₂	0-10,000ppm
	O ₂	0-100%
Measurement Accuracy	Gas	
	CO ₂	Accuracy: $\pm(1.5\%$ of range + 2% of reading) at reference conditions ¹ Temperature dependence: $\pm 0.2\%$ reading/ $^{\circ}\text{C}$ (typical at 1,000ppm CO ₂) Pressure dependence: $\pm 0.02\%$ of reading/hPa (typical at 1,000ppm CO ₂)
	O ₂	$\pm 1.0\%$ Full Scale @ constant temperature and pressure $\pm 2.0\%$ Full Scale over operating temperature range
Response time, T⁹⁰	CO ₂	≤ 20 seconds
	O ₂	≤ 60 seconds

¹ Conditions during factory calibration, typically 20°C, 1000mBar

FACILITIES

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

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PUMP	
Flow	100cc/min typically

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

PHYSICAL	
Weight	495 grams
Size	L 165mm, W100mm, D55mm
Case Material	ABS / Polypropylene with Silicone Rubber Inserts
Keys	17 Resin capped Silicone rubber keys
Display	Liquid crystal display, 128 x 64 pixel With RGB LED back-light
Gas sample filters	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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