

G210

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	N ₂ O	By custom dual wavelength infra-red cell
	CO ₂	By custom dual wavelength infra-red cell
	O ₂ (Optional)	By internal electrochemical cell
	CO (Optional)	By internal electrochemical cell
Oxygen cell lifetime	Approximately 3 years in air	
CO cell lifetime	Approximately 2 years in air	
Range	N ₂ O	0 to 100%
	CO ₂	0 to 2000ppm
	O ₂	0 to 100%
	CO	0 to 500ppm
Measurement Accuracy	Gas	
	N ₂ O	Resolution: 0.1% Accuracy: ±(1% of range + 2% of reading) at reference conditions ¹ Temperature dependence: ±0.2% reading / °C (typical at 90% N ₂ O) Pressure dependence: ±0.02% of reading / mb (typical at 90% N ₂ O)
	CO ₂	Resolution: 1ppm Accuracy: ±(1.5% of range + 2% of reading) at reference conditions ¹ Temperature dependence: ±0.2% reading / °C (typical at 1000ppm CO ₂) Pressure dependence: ±0.02% of reading / mb (typical at 1000ppm CO ₂)
	O ₂	Resolution: 0.1% Accuracy: ±2.0% Full Scale @ constant temperature and pressure Temperature dependence: ±3.0% Full Scale over operating temperature range Pressure dependence: ±0.025% of reading / mb
	CO	Resolution: 0.1ppm Accuracy: ±5.0% of range @ constant temperature and pressure Temperature dependence: Zero reading ±5ppm over operating temperature range Pressure dependence: TBA

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GAS RANGES (continued)

Response time, T⁹⁰	CO ₂	≤20 seconds
	O ₂	≤60 seconds
	N ₂ O	≤20 seconds
	CO	≤60 seconds

¹ Conditions during factory calibration, typically 22°C, 1000mBar

FACILITIES

Visual and audible alarm	User selectable N ₂ O, CO, CO ₂ and O ₂ alarm levels
Communications	USB type B mini-connector, HID device class
Data Storage	1000 reading sets + 270 events 50 Site ID's and 300 sample point ID's

PUMP

Flow	100cc/min typically (300cc/min MAX)
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ENVIRONMENTAL CONDITIONS

Operating temperature	5°C to 40°C
Operating pressure	500 to 1500mb
Relative humidity	5% to 95% non condensing
IP rating	IP40

PHYSICAL

Weight	500 grams
Size	L165mm, 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	User replaceable PTFE water trap filter

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