

G200 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 with reference channel
Range	N ₂ O	0-1,000ppm 0-10,000ppm (leak detection mode)
Measurement Accuracy	Gas	
	N ₂ O	Resolution: 1ppm Accuracy: ±(1.5% of range+ 2% of reading) at reference conditions ¹ Temperature dependence: ±2ppm /°C (typical at 100ppm N ₂ O) Pressure dependence: ±0.1% of reading/hPa (typical at 100ppm N ₂ O)
Response time, T⁹⁰	N ₂ O	≤40 seconds

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

FACILITIES

Visual and audible alarm	User selectable N ₂ O and TWA alarms
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
Barometric pressure	500 to 1500mb
Relative humidity	5% to 95% non condensing
IP rating	IP40

PHYSICAL

Weight	500 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	User replaceable PTFE water trap filter G1.10 - Soda lime CO ₂ filter

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