

## G200 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>	N <sub>2</sub> O	By custom dual wavelength infra-red cell with reference channel
<b>Range</b>	N <sub>2</sub> O	0-1,000ppm 0-10,000ppm (leak detection mode)
<b>Measurement Accuracy</b>	Gas	
	N <sub>2</sub> O	<b>Resolution:</b> 1ppm <b>Accuracy:</b> ±( 1.5% of range+ 2% of reading) at reference conditions <sup>1</sup> <b>Temperature dependence:</b> ±2ppm /°C (typical at 100ppm N <sub>2</sub> O) <b>Pressure dependence:</b> ±0.1% of reading/hPa (typical at 100ppm N <sub>2</sub> O)
<b>Response time, T<sup>90</sup></b>	N <sub>2</sub> O	≤40 seconds

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

### FACILITIES

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

### PUMP

<b>Flow</b>	100cc/min typically (300cc/min MAX)
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**ENVIRONMENTAL CONDITIONS**

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

**PHYSICAL**

<b>Weight</b>	500 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>	User replaceable PTFE water trap filter G1.10 - Soda lime CO <sub>2</sub> filter

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