



Medical  
Staff  
Safety

## G200

The G200 N<sub>2</sub>O analyser is designed to safety check background and breathing zone levels of N<sub>2</sub>O (0-1000ppm) in medical applications.

### Benefits

- Accurate verification of exposure limit breaches
- Dual purpose background analyser or personal analyser.
- Leak detection for N<sub>2</sub>O storage
- Highly portable

### Features

- 0 - 1000 ppm N<sub>2</sub>O
- Storage for 1000 readings
- TWA calculated
- EH40 occupational exposure limits calculated
- Leak detection
- User settable alarms
- Data download for graphing and reporting

### Applications

- Operating theatres
- Dental practices
- Veterinary clinics
- X-ray departments



## Technical Specifications

### G200

#### POWER SUPPLY

Battery type	Li Ion
Battery life	12 hours (10 hours with pump)
Battery lifetime	600 cycles
Battery charger	5v DC external power supply and internal charging circuit
Charge time	4 hours
Alternative power	5Vdc power supply

#### GAS RANGES

Gases measured	N <sub>2</sub> O	By custom dual wavelength infra-red cell with reference channel
Range	N <sub>2</sub> O	0 - 1,000ppm 0 - 10,000ppm (leak detection mode, indication only)
Measurement accuracy*	N <sub>2</sub> O	Resolution: 1ppm ± 5ppm for 0-100ppm after calibration ± 1.5% of range for 101ppm and above, after calibration
Response time, T <sup>90</sup>	N <sub>2</sub> O	≤ 40 seconds

\* plus accuracy of calibration gas used

#### FACILITIES

Visual and audible alarm	User selectable N <sub>2</sub> 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
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#### ENVIRONMENTAL CONDITIONS

Operating temperature	0°C to 50°C
Barometric pressure	500 to 1500mb
Relative humidity	5% to 95% non condensing
IP rating	IP40

#### PHYSICAL

Weight	500 grams
Size	L 165mm, W 100mm, D 55mm
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 <sub>2</sub> filter



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# Technical Specifications

G200

## CERTIFICATION

EN 50270 :2006	Electromagnetic compatibility - Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen
EN 61010 -1:2010	Safety requirements for electrical equipment for measurement, control, and laboratory use. Part 1: General requirements

Note 1.: Due to Geotech's continuous programme of improvement, this specification is subject to change without prior notice.  
Note 2.: For optimum performance during continuous monitoring, a 45 minute warm-up period is recommended.