# G200

Geotech

## $N_2O$ GAS ANALYSER | MEDICAL STAFF SAFETY

The G200 $N_2O$ analyser is designed to safety check background and breathing zone levels of $N_2O$ (0-1000ppm) in medical applications.

### SECTOR

Medical gas

### APPLICATIONS

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

### FEATURES

- 0 - 1000 ppm $N_2O$
- Storage for 1000 readings
- TWA calculated
- EH40 occupational exposure limits calculated
- Leak detection
- User settable alarms
- Data download for graphing and reporting

### BENEFITS

- Accurate verification of exposure limit breaches
- Dual purpose background analyser or personal analyser.
- Leak detection for $N_2O$ storage
- Highly portable is running efficiently

# G200

## TECHNICAL SPECIFICATIONS

| | | |
|---|---|---|
| **POWER SUPPLY** | | |
| Battery type | Li Ion | |
| Battery life | 12 hours (10 hours with pump) | |
| Battery lifetime | 600 cycles | |
| Battery charger | 5Vdc external power supply and internal charging circuit | |
| Charge time | Approximately 4 hours from complete discharge | |
| Alternative power | 5Vdc power supply | |
| **GAS RANGES** | | |
| Gases measured | $N_2O$ | By custom dual wavelength infra-red cell with reference channel |
| Range | $N_2O$ | 0 - 1,000ppm |
| | | 0 - 10,000ppm (leak detection mode, indication only) |
| Typical accuracy* | $N_2O$ | Resolution: 1ppm |
| | | ± 5ppm for 0 - 100ppm after calibration |
| | | ± 1.5% of range for 101ppm and above, after calibration |
| Response time, $T^{90}$ | $N_2O$ | ≤ 40 seconds |
| *Typical accuracies | All typical accuracies quoted are after calibration plus accuracy of calibration gas used. | |
| **FACILITIES** | | |
| Visual and audible alarm | User selectable $N_2O$ 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 | |
| **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 $CO_2$ filter | |
| **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: For optimum performance during continuous monitoring, a 45 minute warm-up period is recommended. | | |

**sales@norrscope.com**