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

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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.		

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