Geotech

A subsidiary of LANDTEC

G210
N_2O, 0-100% GAS ANALYSER

Piped Medical
Gas Verification

G210

The G210 is specifically designed for highly accurate measurement and verification of the quality of piped N_2O and O_2 gases in hospitals.

Benefits

- 4 gases measured in one analyser
- Easy user calibration
- Quick verification of gas quality
- Enter specific site & IDs for monitoring points
- Identify contaminants CO and CO_2

Features

- 0 - 100% N_2O
- 0 - 100% O_2
- 0 - 500 ppm CO (optional)
- 0 - 2000 ppm CO_2
- Data storage with site & ID input
- User alarms

Applications

- Hospital piped gases
- Leak detection

G210

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_2O	By custom dual wavelength infra-red cell
	CO_2	By custom dual wavelength infra-red cell
	O_2 (Optional)	By internal electrochemical cell
	CO (Optional)	By internal electrochemical cell
Oxygen cell lifetime	Approximately 3 years in air	
CO cell lifetime	Approximately 2 years in air	
Range	N_2O	0 - 100%
	CO_2	0 - 2000ppm
	O_2	0 - 100%
	CO	0 - 500ppm
Measurement Accuracy*	N_2O	± 1% of range after calibration
	CO_2	± 3% of range after calibration
	O_2	± 0.5% of range after calibration
	CO	± 2ppm for 0-20ppm after calibration ± 5% of range from 21 - 500ppm after calibration
Response time, T^{90}	CO_2	≤ 20 seconds
	O_2	≤ 60 seconds
	N_2O	≤ 20 seconds
	CO	≤ 60 seconds

* plus accuracy of calibration gas used

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G210 cont'd.

FACILITIES

Visual and audible alarm	User selectable N_2O, CO, CO_2 and O_2 alarm levels
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

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

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