



Piped Medical Gas Verification

G210

The G210 is specifically designed for highly accurate measurement and verification of the quality of piped N₂O and O₂ 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 CO₂

Features

- 0 - 100% N₂O
- 0 - 100% O₂
- 0 - 500 ppm CO (optional)
- 0 - 2000 ppm CO₂
- Data storage with site & ID input
- User alarms

Applications

- Hospital piped gases
- Leak detection



Technical Specifications

G210

POWER SUPPLY

Battery type	Li Ion
Battery life	> 10 hours (8 hours with pump)
Battery lifetime	> 300 cycles
Battery charger	5v DC external power supply and internal charging circuit
Charge time	< 3 hours
Alternative power	USB connector DC power supply

GAS RANGES

Gases measured	N ₂ O	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 ₂ O	0 - 100%
	CO ₂	0 - 2000ppm
	O ₂	0 - 100%
	CO	0 - 500ppm
Measurement Accuracy	Gas	
	N ₂ O	Resolution: 0.1% Accuracy: ± (1% of range + 2% of reading) at reference conditions ¹ Temperature dependence: ± 0.2% reading/ °C (typical at 90% N ₂ O) Pressure dependence: ± 0.02% of reading/ mb (typical at 90% N ₂ O)
	CO ₂	Resolution: 1ppm Accuracy: ± (1.5% of range + 2% of reading) at reference conditions Temperature dependence: ± 0.2% reading/ °C (typical at 1000ppm CO ₂) Pressure dependence: ± 0.02% of reading/ mb (typical at 1000ppm CO ₂)
	O ₂	Resolution: 0.1% Accuracy: ± 1.0% Full Scale @ constant temperature and pressure
	CO	Resolution: 0.1ppm Accuracy: ± 5.0% of range @ constant temperature and pressure Temperature dependence: Zero reading ± 5ppm over operating temperature range
Response time, T ⁹⁰	CO ₂	≤ 20 seconds
	O ₂	≤ 60 seconds
	N ₂ O	≤ 20 seconds
	CO	≤ 60 seconds

¹Conditions during factory calibration, typically 20°C, 1000mbar



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Technical Specifications

G210 cont'd.

FACILITIES

Visual and audible alarm	User selectable N ₂ O, 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
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ENVIRONMENTAL CONDITIONS

Operating temperature	5°C to 40°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

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



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