VIASENSOR

N$_2$O, 0-100% GAS ANALYZER
G210

PIPED MEDICAL
GAS VERIFICATION

G210

The **G210** is specifically designed for **highly accurate** measurement and verification of the quality of piped ***N$_2$O and O$_2$ medical gases*** in hospitals.

- **Simplifying piped medical gas verification**
- **4 gases measured in one analyzer**
- **Data storage and download**

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Features

- 0 – 100% N$_2$O
- 0 – 100% O$_2$
- 0 – 500 ppm CO (optional)
- 0 – 2,000 ppm CO$_2$
- Data storage with site & ID input
- User alarms

Applications

- Hospital piped gases
- Leak detection

Key Benefits

- 4 gases measured in one analyzer
- Easy user calibration
- Quick verification of gas quality
- Enter specific site & IDs for monitoring points
- Identify contaminants CO and CO$_2$

TECHNICAL SPECIFICATIONS:

Gas Ranges

Gases Measured	N$_2$0		By custom dual wavelength infra-red cell
	CO$_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 - 2,000ppm
	O$_2$		0 - 100%
	CO		0 - 500ppm
Measurement Accuracy*	Gas		
	N$_2$O	± 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$_2$O	≤ 20 seconds	
	CO	≤ 60 seconds	

* plus accuracy of calibration gas used

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

Environmental Conditions

Operating temperature	32F–122F (0℃ – 50℃)
Relative humidity	5% to 95% non condensing
Barometric pressure	500 to 1,500mb
IP rating	IP40

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

Physical

Weight	1.1 lbs (500 grams)
Size	L 6.5 in, W 3.9 in, D 2.2 in (L 165mm, W100mm, D55mm)
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

Pump

Flow	100cc/min typically

✍ Note:
Due to VIASENSOR'S continuous program of improvement, this specification is subject to change without prior notice.

www.viasensor.com