VIASENSOR

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CO_2 INDOOR AIR QUALITY ANALYZER
G150

AIR QUALITY
CHECK ANALYZER

G150

CO_2 analyzer designed to **monitor CO_2**
for all *Indoor Air Quality (IAQ)* applications.

This unit has been developed to incorporate the latest technology
and specification requirements to provide the user with a fast,
simple-to-use and accurate piece of environmental field equipment.

- **Ideal for Indoor Air Quality (IAQ) applications**

- **Quick verification of CO_2 levels**

- **Built in gas moisture removal**

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ANALYZER
G150

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Features

- CO$_2$ 0 – 10,000 ppm
- Options for:
  – O$_2$ 0 – 100%
  – Dual temperature probes
      32°F – 122°F (0°C – 50°C)
  – Humidity Sensor 0 – 100%
  – Data storage and download

Applications

- General IAQ
- Site Audits
- Laboratories
- Medical

Key Benefits

- High accuracy on CO$_2$ readings
- Quick verification of CO$_2$ levels for site audits
- Time saving with dual temperature probes
- Data logging for long-term application
- Easy to read large well-lit display
- Built in gas moisture removal

TECHNICAL SPECIFICATIONS:

Gas Ranges

Gases Measured	CO$_2$	By custom dual wavelength infra-red sensor with reference channel
	O$_2$ (Optional)	By internal electrochemical cell
Oxygen cell lifetime	Approximately 3 years in air	
Range	CO$_2$	0-10,000ppm
	O$_2$	0-100%
Measurement Accuracy*	Gas	
	CO$_2$	± 1.5% of range after calibration (typically ± 10ppm at 500ppm CO2, after calibration)
	O$_2$	± 1.0% of range after calibration
Response time, T ^{90}	CO$_2$	≤20 seconds
	O$_2$	≤60 seconds

* plus accuracy of calibration gas used

Facilities

Temperature (Optional)	X2 using optional probes, range 32°F to 122°F (0°C to +50°C)
Temperature accuracy, typical	±0.2°C
Barometric pressure	800-1,200 mbar
RH measurement (Optional)	RH Probe 0-100% RH non condensing
RH accuracy	±1.5% RH across the range
Visual and audible alarm	User selectable CO$_2$ and O$_2$ alarm levels
Communications	USB type B mini-connect, HID device class
Data Storage	1,000 reading sets + 270 events

Environmental Conditions

Operating temperature	32°F - 1022°F (0°C – 50°C)
Relative humidity	0 - 95% non condensing (RH Probe 0-100% non condensing)
Barometric pressure	±201 H$_2$O from calibration pressure, (±500mbar)

Pump

Flow	100cc/min typically

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 (495 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	Built-in gas dryer tube to remove moisture User replaceable PTFE water trap filter

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

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