

# VIASENSOR

CO<sub>2</sub> INDOOR AIR QUALITY  
ANALYZER  
G150

AIR QUALITY  
CHECK ANALYZER



G150

**New CO<sub>2</sub> analyzer**  
designed to **monitor CO<sub>2</sub>** for all  
**Indoor Air Quality (IAQ)** applications.

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

- ✦ Ideal for Indoor Air Quality (IAQ) applications
- ✦ Quick verification of CO<sub>2</sub> levels
- ✦ Built in gas moisture removal

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## CO<sub>2</sub> INDOOR AIR QUALITY ANALYZER G150



AIR QUALITY CHECK ANALYZER

### Features

- CO<sub>2</sub> 0 – 10,000 ppm
- Options for:
  - O<sub>2</sub> 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

- Improved accuracy on CO<sub>2</sub> readings
- Quick verification of CO<sub>2</sub> 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 <sub>2</sub>              | By custom dual wavelength infra-red sensor with reference channel   |
|                                | O <sub>2</sub> (Optional)    | By internal electrochemical cell  |
| Oxygen cell lifetime           | Approximately 3 years in air |   |
| Range                          | CO <sub>2</sub>              | 0-10,000ppm   |
|                                | O <sub>2</sub>               | 0-100%  |
| Measurement Accuracy           | Gas                          |   |
|                                | CO <sub>2</sub>              | <b>Temperature dependence:</b> ±0.2% reading / (typical at 5% CO <sub>2</sub> )<br><b>Pressure dependence:</b> ±0.02% of reading/hPa (typical at 1,000ppm CO <sub>2</sub> ) |
|                                | O <sub>2</sub>               | ±1.0% Full Scale @ constant temperature and pressure<br>±2.0% Full Scale over operating temperature range   |
| Response time, T <sup>90</sup> | CO <sub>2</sub>              | ≤20 seconds   |
|                                | O <sub>2</sub>               | ≤60 seconds   |

<sup>1</sup> Conditions during factory calibration, typically 25°C, 980mBar

#### Facilities

|                               |   |
|-------------------------------|---|
| Temperature (Optional)        | X2 using optional probes, range 32°F to 122°F (0°C to +50°C)    |
| Temperature accuracy, typical | ±0.2°C from 32 to 44 °C, ±0.5°C over the rest of the range      |
| 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 <sub>2</sub> and O <sub>2</sub> alarm levels |
| Communications                | USB type B mini-connect or, HID device class                    |
| Data Storage                  | 1,000 reading sets + 270 events                                 |

#### Environmental Conditions

|                       |  |
|-----------------------|--|
| Operating temperature | 41°F - 104°F (5°C – 40°C)                                    |
| Relative humidity     | 0 - 95% non condensing (RH Probe 0-100% non condensing)      |
| Barometric pressure   | ±201 "H <sub>2</sub> 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<br>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<br>User replaceable PTFE water trap filter |

#### Note:

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