

# VIASENSOR

CO<sub>2</sub> ANALYSIS  
G110

SPECIALIST CONTROLLED  
ATMOSPHERE MONITORING



G110

## New CO<sub>2</sub> analyzer

designed to **monitor CO<sub>2</sub>** for multiple applications including ***Brewing industry.***

This unit has been developed to incorporate the latest technology and specifications requirements, that provide the user with a fast, simple-to-use analyzer.

- ✚ Quick verification of CO<sub>2</sub> levels
- ✚ Improved accuracy on CO<sub>2</sub> readings
- ✚ Built in gas moisture removal

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## CO<sub>2</sub> ANALYSIS G110



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### Features

- CO<sub>2</sub> 0 – 100%
- 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

- Food Processing
- Research
- Brewing
- Medical

### Key Benefits

- Improved accuracy on CO<sub>2</sub> readings
- Quick verification of CO<sub>2</sub> levels
- Time saving with dual temperature probes
- Large data storage with software
- 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>	0-100%
	O <sub>2</sub>	0-100%
Measurement Accuracy	Gas	
	CO <sub>2</sub>	<b>Accuracy:</b> ±( 1% of range+ 2% of reading) at reference conditions <sup>1</sup> <b>Temperature dependence:</b> ±0.2% reading / (typical at 5% CO <sub>2</sub> ) <b>Pressure dependence:</b> ±0.02% of reading/hPa (typical at 5% CO <sub>2</sub> ) ±1.0% Full Scale @ constant temperature and pressure ±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 +50.0°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
Barometric pressure	±201 "H <sub>2</sub> O from calibration pressure, (±500mbar)

#### Pump

Flow	100cc/min typically
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#### 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 Viaselector's continuous program of improvement, this specification is subject to change without prior notice.