G110

CO_2 | CO_2 | O_2

@eotech

CO_2 analyser designed to monitor CO_2 for multiple applications, including Brewing industry. This unit has been developed to incorporate the latest technology and specification requirements, that provide the user with a fast, simple to use analyser.

FEATURES

- CO_2 0 - 100%
- Options for:
  - O_2 0 - 100%
  - Dual temperature probes 0 to 50°C
  - Data storage and download
  - Humidity Sensor 0 - 100%

BENEFITS

- Accurate CO_2 readings
- Quick verification of CO_2 levels
- Time saving with dual temperature probes
- Large data storage and user friendly software and download
- Easy to read large well lit display
- Built in gas moisture removal

SECTOR

CO_2 CO_2 monitoring

APPLICATIONS

- Food Processing
- Research
- Brewing
- Medical

G110

TECHNICAL SPECIFICATIONS

POWER SUPPLY		
Battery type	Li Ion	
Battery life	12 hours (10 hours with pump)	
Battery lifetime	600 cycles	
Battery charger	5Vdc external power supply and internal charging circuit	
Charge time	4 hours	
Alternative power	5Vdc power supply	

GAS RANGES		
Gases measured	CO_2	By custom dual wavelength infra-red cell with reference channel
	O_2 (optional)	By internal electrochemical cell
Oxygen cell lifetime	Approximately 3 years in air	
Range	CO_2	0 - 100%
	O_2	0 - 100%
Typical accuracy*	CO_2	± 1% of range after calibration
	O_2	± 1% of range after calibration
Response time, T^{90}	CO_2	≤ 20 seconds
	O_2	≤ 60 seconds
*Typical accuracies	All typical accuracies quoted are after calibration plus accuracy of calibration gas used.	

FACILITIES	
Temperature (optional)	x2 using optional probes, range 0°C to +50°C
Temperature accuracy	± 0.2°C
Barometric pressure	800- 1200 mbar
RH measurement (optional)	RH Probe 0 - 100% RH non condensing
RH accuracy	± 1.5% RH across the range
Visual and audible alarms	User selectable CO_2 and O_2 alarm levels
Communications	USB type B mini-connector, HID device class
Data storage	1000 reading sets + 270 events

PUMP	
Flow	100cc / min typically

ENVIRONMENTAL CONDITIONS	
Operating temperature	0°C to 50°C
Relative humidity	0 - 95% non condensing
Barometric pressure	± 500 mbar from calibration pressure
IP rating	IP40

PHYSICAL	
Weight	495 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 pixels
	With RGB LED back-light
Gas sample filters	Built-in gas dryer tube to remove moisture
	User replaceable PTFE water trap filter

CERTIFICATION	
EN 50270 : 2006	Electromagnetic compatibility- Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen
EN 61010-1 : 2010	Safety requirements for electrical equipment for measurement, control, and laboratory use. Part 1: General requirements