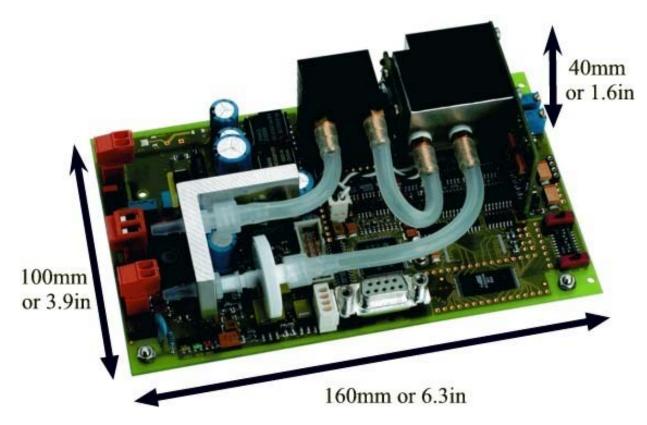
Compact Measurement of Carbon Dioxide & Oxygen EcoChem CARBONOXY



The CarbonOxy is a unique device for measuring CO2 and O2 on a Euro Printed Circuit Board (PCB). Carbon Dioxide is measured using the dual wavelength technique (NDIR - Non-Dispersive Infra Red) while Oxygen is measured using Zirconium Oxide. This combination ensures a quick response time along with elimination of interference from other gases.

With various DIP switches on the circuit board, the response time for the analyzer can be adjusted between 1 to 10 seconds. It is possible to do automatic temperature correction or zero point adjustment can be made. The entire circuit board is constantly monitored by a microcontroller and LEDs in various colors can indicate alarm states and out of range values.

The power consumption of the combination is a maximum of 6 watts and hence is suitable for a portable, compact measuring device. All electronics meet the latest European EMV regulations.

Features

- Specific to CO2 and O2 -- no interference • from other gases
- No reference gases are needed •
- Self-calibrating •
- Long lifespan •
- •
- Stable operations Low power consumption •
- Compact device •

Applications

- Horticulture green houses ٠
- Fruit storage •
- Mushroom farming •
- Food packaging •
- Breweries •
- Incubators ٠
- Livestock Husbandry •
- Landfill gas monitoring •

Technical Specifications

	CO2	02	C02/02	
Principle of Operation	NDIR	Zirconia Oxide	NDIR / Zirconia Oxide	
Accuracy	+/- 2% Full-scale	+/- 0.5% Full-scale	+/- 2% CO2 and +/- 0.5%O2	
			of Full-scale	
Repeatability	+/- 1% Full-scale	+/- 1% Full-scale	+/- 1% Full-scale for both	
Response time T90	110 sec (adjustable)	110 sec (adjustable)	110 sec (adjustable)	
Operating Temperature	-10 to +50degC	-10 to +50degC	-10 to +50degC	
Zero Drift	0	0	0	
Warm-up Time	2 min	2 min	2 min	
Humidity	98% non-condensing	98% non-condensing	98% non-condensing	
Power Supply	12 to 30 VDC	12 to 30 VDC	12 to 30 VDC	
Power Consumption	3W	3W	6W	
Outputs	0/420mA	0/420mA	0/420mA	
	0/210VDC	0/210VDC	0/210VDC	
	RS232	RS232	RS232	
Life span	> 3 years	> 3 years	> 3 years	
Flow rate	0.5 l/min	0.5 l/min	0.5 l/min	
Dimensions	160 x 100 x 40 mm	160 x 100 x 40 mm	160 x 100 x 40 mm	
	6.3 x 3.9 x 1.6 in	6.3 x 3.9 x 1.6 in	6.3 x 3.9 x 1.6 in	
Weight	300 gm (0.66 lb)	280 gm (0.62lb)	380 gm (0.84lb)	

Measurement Ranges	02	CO2
0 to 5%	na	х
0 to 10%	na	х
0 to 25%	х	х
0 to 50%	х	х
0 to 95%	х	na
0 to 100%	na	х

x -- available

na-- not available



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Version 3.5 - Specifications subject to change without notice