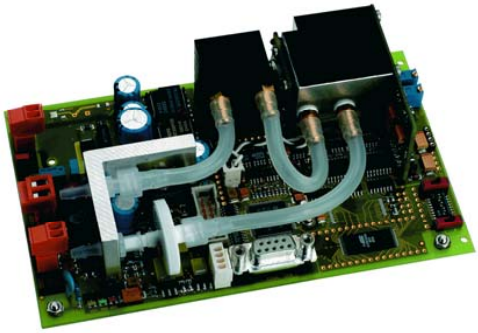
Karbondioxyd & Sauerstoff
Carbon Dioxide & Oxygen



CARBONOXY measure stable and accurate CO_2/ O_2

The **CARBONOXY** is a unique device for measuring CO_2 and O_2 on a Euro-PCB. Carbon Dioxide is measured using the dual wavelength technique (NDIR non-dispersive infra red) while Oxygen is measured using Zirconium Oxyde. 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 analyser can be adjusted 1 or 30 seconds. It is possible to do automatic temperature correction or zero point adjustment can be made. The entire circuit boards is constantly monitored by a microcontroller and LED's in various colours 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

Gas Specific	No Reference Gas Is Needed	Self Calibration	Long Lifespan
Compact	Low Power Consumption	Long Time Stable	

Applications

Fruit Storage	Horticulture Glass House	Mushroom Farming	Brewing
Fruit Storage	Landfill Gas Monitoring	Livestock Husbandry	Medical

Specifications

		CO_2	O_2		
Messprinzip		NDIR	Zirconia		Principle of operation
Messbereiche		0...10, 30%	0...25, 95%		Measuring ranges
Genauigkeit		<±2%FS	<±0,5%FS		Accuracy
Stabilität		<±2%FS/year	<±0,5%FS/year		Stability
Wiederholgenauigkeit	Nullpunkt	<±0,5%FS		Zero	Repeatability
	Endwert	<±2%FS		Full Scale	
Ansprechzeit T_{90}		1 or 30sec adjustable			Response time T_{90}
Betriebstemperatur		-10...+45°C			Operating temp.
Aufwärmzeit		2min			Warm-up time
Feuchte		unaffected by 0...98% r.h. (non-condensing)			Humidity
Speisespannung		11,5...30VDC			Supply
Leistungsaufnahme		6W			Power consumption
Ausgangssignale		2 x 0/4...20mA, 0/2...10VDC, RS232/19'200Baud			Outputs
Lebensdauer			>3 years		Life span
Durchflussrate		0,5...1l/min			Flow rate
Abmessungen		160 x 100 x 40mm			Dimensions
Gewicht		380gr			Weight

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