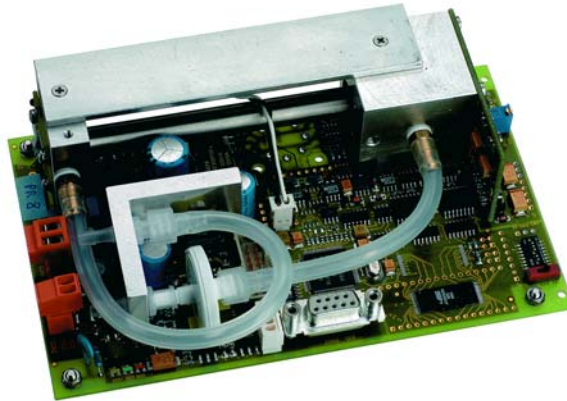


Karbondioxyd / Carbon Dioxide



CARBONDIO measure stable and accurate CO₂

The **CARBONDIO** is an CO₂-module supplied on Euro-PCB. For the measuring of carbon dioxide the dual wavelength infrared method (NDIR) is being used. This technology guarantees a quick and selective measuring of the current gas concentration. With the various DIP-switches on the board the response time for instance can be adjusted 1 or 30 sec., the temperature corrections can be activated or the zero point adjustment can be made. The latter permits corrections without a fussing with a small and delicate potentiometer. The microcontroller is constantly monitoring the status of the sensor and signal the current state through LED's in various colours; during extreme errors the output signal gets blocked accordingly. The power consumption of this module is max. 3W and is therefore suitable for a portable measuring device. Of course the electronics meet the latest 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
Food Packaging	Landfill Gas Monitoring	Livestock Husbandry	Medical

Specifications

Messprinzip	NDIR	Principle of operation
Messbereiche	0...500, 1000, 2000, 5000ppm, 0...1, 5, 10, 30, 50%	Measuring ranges
Genauigkeit	<±2%FS	Accuracy
Stabilität	<±2%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 98% r.h. (non-condensing)	Humidity
Speisespannung	11,5...30VDC	Supply
Leistungsaufnahme	3W	Power consumption
Ausgangssignale	0/4...20mA, 0/2...10VDC, RS232/19'200Baud	Outputs
Durchflussrate	0,5...1l/min	Flow rate
Abmessungen	160 x 100 x 40mm	Dimensions
Gewicht	300gr	Weight

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HAUPTPRODUKTE:

Leucht- und Temperatursensoren, Weggeber, Inklinometer, Drucksensoren, Beschleunigungsmesser, Füllstände, Servomotoren, Gasanalysatoren, Laserstoffsensoren und Module, O₂-Analyser, Switching-Power Supplies, DC/DC-Wandler, UPS-Systeme.

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