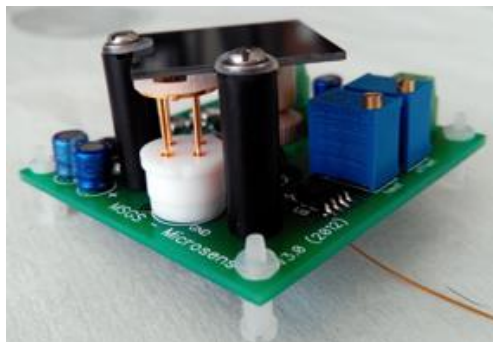


MGA1

MICROSENS Miniature Gas Analyzer System

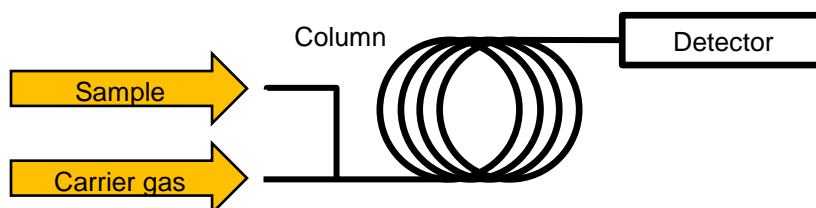
System Description



Key Features

- MSGS3000i gas sensor
- Silicon Microcolumn
- Readout and control electronics
- Portable system
- Pneumatic circuit including miniature pump and valves
- Interfacing with PC via USB

Basic Principle



A small sample volume is injected into the stream flowing through the silicon microcolumn. The gaseous compounds are separated through interaction with the channel wall lining and arrived separately at the MSGS3000i sensor positioned at the exit of the microcolumn. The thus obtained chromatogram allows to characterize the sample and detect specific compounds therein.

Key Features and Applications

Applications

- Indoor and outdoor air quality monitoring
- Personal health
- food odor monitoring

Characteristics:

- gas chromatography principle
- air as continuous phase
- system pressure: 50kPa
- measurement time: 130s