

DETECTS:

Acetone

Acetonitrile

Acetophenone

Allyl alcohol

Alpha Pinene

Ammonia

Benzene

Bromobenzene

Carbaryl

DIMP

DMDNB

2,6-DNT

2,4-DNT

Ethyl acetate

Ethyl alcohol

HCN

IPA

Methyl alcohol

Methyl benzo-
ate

Nitrobenzene

1-Nitropropane

o-Nitrotoluene

Octane

Phenol

Styrene Oxide

TFA

Toluene

Seacoast Science SC-210

Modular Chemical Detection System

The SC-210 Modular Chemical Detection System is designed to provide the basic parts necessary to incorporate a chemical sensor into an existing network or device for demonstration purposes. Weighing less than four ounces (100g), the SC-210 base assembly can detect numerous volatile organic chemicals, emissions gases, nitroaromatics, and chemical warfare agents (CWA). Optional modules can be added to increase response speed, increase sensitivity, to protect the sensor from extreme environments, and to build a handheld miniature gas chromatograph.

SC-210 Base Assembly

This platform forms the core of the SC-210 system and contains a circuit capable of data logging, LED threshold monitoring, operating from a battery or external power source, and is easily integrated into many network types. This assembly also comes with a sensor chip capable of detecting most volatile organic compounds (VOC), all necessary USB cables, and standalone software for data logging and monitoring on a PC.



Features:

- Detects Volatile Organic Compounds and Chemical Warfare Agents.
- MEMS Chemicapacitive Sensor Array for desktop or environmental chamber use.
- Small size: L1.1 x W2.7 x H0.9 inch and weighs less than 4 ounces (<100g).
- Most easy-to-use model offered by Seacoast Science.
- Turn on and sample within 10 seconds. Can sample up to once a second.

Options

Sensor Chip Package - For applications requiring detection of toxic industrial chemicals, chemical warfare agents, or explosives, an application-specific chip can be purchased to replace the standard VOC chip.

Pump Module - When the sensor is to be placed into a confined area or needs higher airflow, a small low power pump can be attached to the SC-210 base assembly with preset screws included.

Case Module - A ruggedized case can be added to enclose the SC-210 base assembly with or without the pump module. The case is designed to allow easy access to the sensor chip for quick replacement.

Bluetooth Module - The SC-210 can be equipped to send data through a standard Bluetooth Module to a PDA or Laptop-based receiver allowing seamless wireless integration into existing networks.



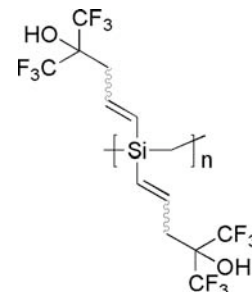
Chemical Sensor Preconcentrator

Seacoast's Chemical Sensor Preconcentrator is our most recent breakthrough. This system is designed to provide selective pre-concentration of select low vapor compounds in a compact and efficient design. It is capable of running for more than ten hours using two AA batteries and utilizes a rapid collection/heat/sensing cycle making it ideal for preconcentration applications involving numerous volatile organic chemicals, emissions gases, nitroaromatics, and chemical warfare agents (CWA).



Chemoselective Polymers

Seacoast Science has a large catalog of chemoselective polymers designed for use in chemical sensing and gas chromatography applications. These polymers are readily soluble in common organic solvents, have high functional group density, high thermal stability, and high chemical stability. Our polymers also demonstrate reversible target analyte binding, stable interfaces with most substrates and sensitivity to many organic solvents.



Mini GC - Portable Gas Chromatograph

Seacoast Science, Inc. is leading the way in field portable Gas Chromatography. Our SC-Mini GC features an oven-less heating technology with fast heat up and fast cool down times. The sensing is preformed by our micromachined (MEMS) proprietary sensor array technology and integration platform. The SC-Mini GC system requires no carrier gases reducing the need and cost of consumables plus many other great features that add ease-of-use and flexibility. The SC-Mini GC will boost productivity by bringing the tools to the field thus providing shorter analytical cycle times with outstanding performance in areas with more demanding samples and applications. The miniature Gas Chromatograph instruments are ideal for use in security and safety, industrial processing, mining and environmental, laboratories and quality control applications. Ask us how we can tailor our MiniGC for your specific applications.

Type	SC-MiniGC
Carrier Gas Required	None
Size/Weight	Small/ 3.1 Pounds
Detection Level	0.1ppm
Ease of Use	Simple
Operating Temp.	5°C to 40°C
Dimensions	L9.0 x W11.0 x H5.0 in.
Fixed Volume Injection Capability	0.5 - 20 microliter
Accessories	AC Adapter, 9V Battery, RS-485 Output, Laptop Computer



Seacoast Science, Inc.
 2151 Last Palmas Drive, Suite C.
 Carlsbad, CA 92011
 Sales: (760) 268-0083 x31
sales@seacoastscience.com
www.seacoastscience.com