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# Scentograph<sup>TM</sup> CMS100

## Portable Air Analysis/Monitoring System

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### ON-SITE ANALYSIS OF VOCs IN AIR

#### FAST, LAB-QUALITY RESULTS

The Scentograph CMS100 is a totally portable gas chromatograph (GC) designed to provide rapid on-site field analysis of volatile organic compounds (VOCs) in air with laboratory GC quality.

Sampling is achieved automatically through an internal pump and a variety of commercially available columns provide efficient compound separation. Columns can be heated isothermally or ramped to temperatures up to 189°C to optimize conditions for best results.

#### APPLICATIONS

- continuous ambient air monitoring
- fugitive emission detection
- underground storage tank screening
- fence line monitoring





Scenograph CMS100's internal battery and gas supply make it totally portable.

Four detector options allow the system to be tailored to each application, general or specific. Detection limits can range from percent to parts-per-trillion (ppt) levels. An internal battery and gas supply makes the unit totally portable. However, adapters are available for use where AC power is available.

A detachable laptop PC with user-friendly software controls system operation, conducts the sample analysis, and stores the results on an internal hard drive for future recall and documentation. While this sophisticated tool will meet any chemist's requirements, less experienced personnel can easily operate it.

This powerful combination of features and reliability, plus the INFICON reputation for quality and workmanship, make the Scenograph CMS100 the ideal choice for analysis of VOCs in air.

## ACCESSORIES AND OPTIONS

**Purge and Trap**—Enables the user to analyze water and soil samples for VOCs on site, using 40 cc sample vials.

**Stack Gas Monitor**—Draws a sample of gas from a stack to the GC.

**Heated Injection Port**—Accommodates syringe injection of gas or liquid.

**Remote Operation**—Real-time remote operation is possible through the addition of an optional modem and software.

**Continuous Monitoring**—The system can be set up to monitor continuously and unattended.

## FOUR DETECTORS AVAILABLE FOR MAXIMUM VERSATILITY

**Micro Argon Ionization Detector**—Provides sensitive detection of organic compounds having an ionization potential of 11.7 eV or below. These compounds include halomethanes and haloethanes, which are sometimes difficult to detect by other common field detectors. These and other hydrocarbons can be detected down to below part-per-billion (ppb) levels.

**Electron Capture Detector**—Selectively detects halogenated hydrocarbons, PCBs, pesticides, and nitro-based compounds down to low ppt levels.

**Thermal Conductivity Detector**—Used primarily to detect natural gases in concentrations from 100 part-per-million (ppm) to percent levels.

**Photoionization Detector**—Uses an ultraviolet lamp to ionize and detect hydrocarbons having ionization potentials of 10.6 eV or less with sensitivity approaching the 1 ppb level.

 **INFICON** Opening The Field To New Ideas®

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