

HAPSITE[®] SituProbe Sampling System

An accessory for HAPSITE
Chemical Identification System



On-Site, Decision-Quality Data on VOCs in Water

HAPSITE SituProbe is an accessory that extends the capabilities of the HAPSITE Chemical Identification System to provide highly accurate, on-scene analysis of volatile organic compounds (VOCs) in water. It is controlled through the HAPSITE GC/MS user interface and provides on-site monitoring, detection, identification, and quantification of a wide range of contaminants—whether intentional or unintentional—to enable a new level of water supply security.



The SituProbe water vessel is used when monitoring continuously flowing water. The sample probe is submerged in the water vessel.

SINGLE SAMPLES OR CONTINUOUS ANALYSIS

It can analyze individual samples or be operated automatically for attended, continuous water stream analysis with typical detection limits of low parts-per-billion (ppb) to parts-per-trillion (ppt) range.

SIMPLIFIED WATER ANALYSIS

HAPSITE SituProbe uses a modified EPA purge and trap protocol. No pumps, valves, or cells are exposed to the water matrix, eliminating the need for sample pretreatment or filtration. Since the sample matrix does not affect the system's performance, even highly polluted water sources can be analyzed with ease.

ADVANTAGES AT A GLANCE

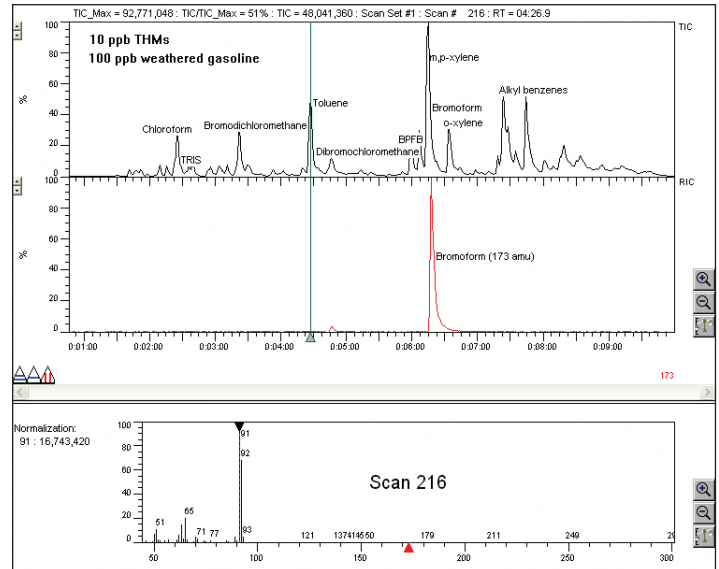
- On-line attended, continuous operating system with monitoring intervals
- Integrated with HAPSITE data system
- Weatherproof and easily decontaminated
- Confirmatory results through spectral matching against the National Institute of Standards and Technology (NIST) Library
- Pre-programmed methods for ease of use

APPLICATIONS

- Source water protection
- Emergency response
- Distribution water
- Groundwater site characterization and remediation
- Storm water monitoring
- Compliance screening

HAPSITE WITH SITUPROBE ANALYSIS OF A WELL WATER SAMPLE

The chromatogram represents water taken from a well in upstate New York that was spiked with gasoline. Once the gasoline was introduced, HAPSITE used SituProbe to analyze the sample using a 60-second purge time at 100 ppb. HAPSITE's ER IQ software identified the peaks of the four THM's (Trihalomethane's) along with the components of gasoline. The bromoform peak is dwarfed by one of the components of the gasoline. The ER IQ software has a program built into it, known as a reconstructed ion chromatogram (RIC) that can illustrate the peak, as shown in red.



SPECIFICATIONS

Operating temperature range	5–30°C (41–86°F)
Probe water depth	Maximum 18 in.; Minimum 5.5 in.
Power supply	24 V (dc) (Operates HAPSITE and SituProbe)
Chassis dimension (L x W x H)	36 x 39.5 x 19 cm (14.5 x 15.5 x 7.5 in.)
Sample probe length	6 ft.
Transfer line	4 ft.
Weight	13.608 kg (30 lb.)
Carrier gas	Nitrogen
Detection limits with SituProbe	ppt-ppb for the concentrator; ppb-ppm for the sample loop

ORDERING INFORMATION

932-220-G1	HAPSITE SituProbe
940-700-G1	SituProbe Water Vessel: designed to keep SituProbe in place for continuous monitoring (13.5 in. in length)
932-403-P1	SituProbe Carrying Case: protective container used for transport and shipping



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