



HAPSITE® Smart Plus

Chemical Identification System

ON-SCENE IDENTIFICATION OF UNKNOWN CHEMICALS JUST GOT EASIER AND FASTER

Now you can detect, identify and quantify toxic industrial chemicals (TICs) and chemical warfare agents (CWAs) right at the scene in less time and with less effort. HAPSITE Smart Plus Chemical Identification System brings important improvements to HAPSITE Smart, the only person-portable, gas chromatograph/mass spectrometer (GC/MS) that gives you lab-quality results in minutes, all with the push of a single button. Available new or as an upgrade to HAPSITE Smart, HAPSITE Smart Plus will quickly and easily get the reliable data you need to make critical decisions affecting life, health, safety and the mission.

GET CRITICAL DATA FASTER, EVEN IN THE TOUGHEST CONDITIONS

The screen display and buttons are easier to read and operate on HAPSITE Smart Plus—even with Level A protective suits. Large buttons make navigation easier, while the large touch screen uses intelligent color coding and icon-driven menus to simplify operation and highlight critical information. The screen can be adjusted for viewing conditions from bright sunlight to night vision.

HAPSITE Smart Plus quickly identifies hazardous chemicals, prioritizes them by relative hazard level, and displays the concentration of each. Touching any listing calls up the appropriate material safety data sheet (MSDS) to help you make immediate and complete decisions.

To make HAPSITE Smart Plus even easier to use, we eliminated the sample loop. Using the concentrator for both initial sampling and low-level detection in the ppb/ppt range reduces by minutes the time it takes to switch between sampling modes.

FEATURES AT A GLANCE

- Available as an upgrade to HAPSITE Smart
- Fast, confirmatory results in the field directly comparable to laboratory GC/MS data
- Improved graphical user interface (GUI) and software for simpler, faster operation
- Bright graphical display of all data and system info, color coded for fast recognition and adjustable for different viewing conditions
- Prioritizes compounds by hazard level and provides rapid access to NIOSH MSDSs for better decision-making
- Enhanced startup procedure speeds readiness
- Built-in GPS records exact sampling location with date/time stamp for legally defensible data

FAST, EFFICIENT STARTUP

At startup, HAPSITE Smart Plus autotunes itself to ensure all data is accurate. It then automatically detects any attachments and defaults to user-defined appropriate methods of analysis, again saving critical setup time and minimizing the potential for operator error. At the same time, HAPSITE Smart Plus is already heating components to the correct operating temperature and cleaning out the concentrator to ensure a very low background. Method and concentrator status are automatically logged for future reference. All data can be easily downloaded to a PC via USB or wireless interface.

FAST EMERGENCY STARTUP

When even this efficient startup procedure would take more time than you can afford, an emergency run feature lets you bypass the AutoTune and concentrator cleanout functions to quickly run an analysis.

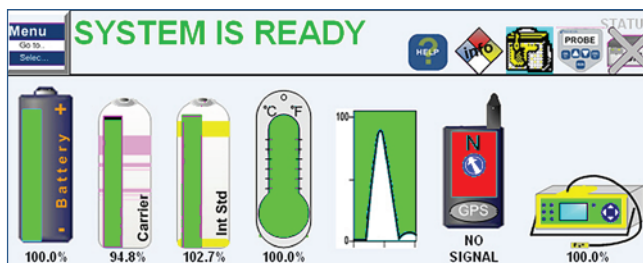
In standby mode, temperature-sensitive components remain heated for improved stability, reliability and repeatability. The unit also performs a self cleanout after every 12 hours of idle time, saving the time needed for a blank run.

EFFICIENT BUILT-IN TRAINING

HAPSITE Smart Plus can be conveniently operated using the original HAPSITE Smart interface. HAPSITE Smart Plus includes a built-in training video, so users can refresh their knowledge at any time. A condensed two-day training course on the new HAPSITE Smart Plus GUI and software is also available.

APPLICATIONS

- Emergency response
- Chemical monitoring
- Environmental assessment
- Industrial hygiene



On-screen icons show at a glance the status of the HAPSITE Smart Plus system. Click any icon for actionable information.

SPECIFICATIONS

Operating Conditions	5°C to 45°C; cold-weather insulating bag and insulation available
L x W x H	18" x 17" x 7" (46 cm x 43 cm x 18 cm)
Weight	Approximately 19 kg (42 lbs) with battery
Power Supply	Rechargeable NiMH battery pack or AC inverter
Battery Life	Battery lasts approximately 3 hours before recharging is needed
Internal Power Consumption	24 V(DC), 30 watts at normal operating conditions
Sample Introduction	Direct—internal sample pump
Carrier Gas	Nitrogen
Data System	Integral Intel® Pentium® processor and external Windows®-based laptop (not required for operation); download data via USB or wirelessly for easy connectivity
Library	National Institute of Standards and Technology (NIST) and AMDIS Mass Spectral libraries; NIOSH
AutoTune	Diagnostic software routine for self-tuning, if necessary, and preparing for sample analysis
Detection Limits	< ppt for most analytes
Mass Spectrometer	
Mass Range	45–300 AMU
Scan Rate	1000 AMU/sec @ 10 points per AMU
Ionization Mode	70 eV EI
Detector	Electron multiplier
Vacuum System	Non-evaporable getter pump (NEG)
Dynamic Range	7 decades
Gas Chromatograph	
Temperature Programmable GC Column	45°C to 200°C
GC Column	30 m x 0.32 mm i.d.; alternate phase and film thickness options available

DETECT TO PROTECT™



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