

Chemical Monitors and Detectors

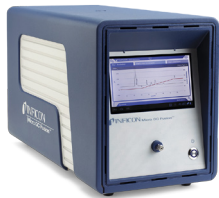
FOR HEALTH, SAFETY, AND ENVIRONMENTAL APPLICATIONS



HAPSITE ER

- World's only truly person-portable Gas Chromatograph / Mass Spectrometer (GC/MS) for analysis of volatile organic compounds (VOC) in air
- Qualitative and quantitative lab-quality results—in the field, in less than 10 minutes
- Designed specifically to transfer quantitative methods from instrument to instrument
- Accessories available for liquids or solids

- CWA analysis
- Emergency response
- TIC/TIM analysis
- Industrial hygiene



Micro GC Fusion

- Next generation replacement to the 3000 Micro GC
- Fast temperature ramping extends application capability
- 1,2-channel and 3,4-channel configurations
- Integrated multi-touch LED display provides intuitive instrument control and status display
- Intelligent web-based GUI and Wi-Fi allows operation from any web-based computing device
- Optional integrated sampling conditioner maintains sampling temperatures at 100°C, and reduces input pressure from up to 1000 psi

- Includes all of the same applications listed for the 3000 Micro GC
- Extended natural gas analysis
- Extended refinery gas analysis



3000 Micro GC

- Fast, accurate, reliable gas analysis of fixed gases and light hydrocarbons in a lab, on-line, or remotely at the sampling point
- 1,2-channel, 3,4-channel, and portable configurations
- Analyze samples simultaneously on up to four independent Gas Chromatograph (GC) modules, with each comprised of a MEMS injector, a micro TCD detector, and a high-resolution capillary column
- Built-in rechargeable battery and carrier gas cylinder (portable model) enabling accurate remote analysis

- Natural gas analysis, including BTU/Calorific Value analysis for custody transfer
- THT/TBM/S-free odorant analysis, and H₂S analysis
- Refinery gas and catalytic reaction monitoring
- Fixed gas, Syngas, fuel cell, fermentation/ biogas, landfill gas
- Dissolved gas analysis (DGA)
- Mud logging
- Mine gas



CMS5000

- Unattended, continuous monitoring of VOCs in air or water
- Stationary instrument with GC technology for separation of analytes and a Micro Argon Ionization Detector (MAID) to measure the response
- Can be integrated into a SCADA system using Ethernet, I/O, or Modbus

- Post treatment effluent monitoring
- Trihalomethane (THM) compliance monitoring
- Granular Activated Carbon (GAC) tank effluent monitoring
- Air quality monitoring
- Process water monitoring



Explorer

- Fast, accurate, portable GC analysis of VOCs in air
- Photoionization Detector (PID) and optional Electron Capture Detector (ECD) dual detection system
- User programmable isothermal oven
- Built-in carrier gas supply and rechargeable battery for extended field use
- Spill characterization
- Process system monitoring
- Environmental surveys
- Leakage assessment from underground storage tanks



2020ComboPRO

- Handheld PID monitors total volatile organic compounds (TVOC) in air
- Small, lightweight, rugged, and easy to use
- High parts per billion (ppb) – parts per million (ppm) sampling range
- Certified as Intrinsically Safe to North America UL and ATEX standards for use in potentially explosive environments
- Optional benzene pre-filter accessory
- Chemical incident response
- Benzene exposure monitoring
- Indoor air quality
- Air monitoring in refineries or potentially explosive environments



2020ppbPRO

- Handheld PID monitors TVOC in air
- Small, lightweight, rugged, and easy to use
- Low ppb sampling
- Certified as Intrinsically Safe to North America UL and ATEX standards for use in potentially explosive environments
- Chemical incident response
- Clean room monitoring
- Low level VOC monitoring
- Air monitoring in refineries or potentially explosive environments



DataFID

- Intrinsically safe, portable flame ionization detector (FID) for VOC detection in a potentially explosive environment
- 70 hour metal hydride hydrogen fuel cylinder (ground transportation only)
- 10 hour metal hydride hydrogen fuel cylinder (carry-on luggage)
- Bluetooth wireless interface to transmit measurement data to external LDAR PDA or computer
- 15 hour battery life
- US EPA 40 CFR Part 60 Method 21 for leak detection and repair (LDAR)
- Landfill surface methane monitoring



MicroFID II

- Intrinsically safe, portable flame ionization detector (FID) for VOC detection in a potentially explosive environment
- 70 hour metal hydride hydrogen fuel cylinder (ground transportation only)
- 10 hour metal hydride hydrogen fuel cylinder (carry-on luggage)
- Bluetooth wireless interface to transmit measurement data to external LDAR PDA or computer
- 15 hour battery life
- First responder monitoring for TVOCs in chemical incident response and arson accelerant investigation
- TVOC monitoring for polluted soil, petroleum product tank entry, and underground storage removal



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