

DRAPER

microAnalyzer V2.0

Ultra-trace Chemical Detection



Product Synopsis	The microAnalyzer V2.0 is an ultra-trace (low parts per trillion) portable chemical detection system based upon the orthogonal separation and detection technologies of Differential Mobility Spectrometry (DMS) and fast Gas Chromatography (GC). The microAnalyzer V2.0 may be programmed (on-unit or remotely) to accommodate different or addition methods to detect new compounds of interest. Coupled with various front end devices, the unit may analyze solids and liquids in addition to vapor.
Analysis Method Used	Gas Chromatography (GC) - Differential Mobility Spectrometry (DMS)
Applications	Biomedical Analysis; Defense & Security; Environmental Analysis; Industrial Process Monitoring; Quality Control
Technology Readiness Level (TRL)	9 (deployed & proven)
Dimensions	10 x 6 x 5.2 in (254 x 153 x 134 mm)
Weight	6.6 lbs (3 kg)
Power Requirements	AC power
Durability/Transportability	Rugged and person-portable
Operating Conditions	0 to 50°C
Consumables	Filter cartridges
Data Analysis Support Equip	Control and data analysis performed on the unit or via connection with PC
Communications Interface	WiFi, RS232, USB, RJ45 Ethernet network connection
Unit Cost	\$25,000 - \$50,000
Maintenance	Filter cartridges 1 to 2 times/yr
Chemical Targets	Volatile Organic Compounds (VOCs)
Customize For New Targets	Yes - Programmable method.
Sample Introduction	Vapor/gas standard or liquids & solids with appropriate front end
Sensitivity/Detection Limits	Low parts per trillion
Start Up Time (From Cold Start To Sample Ready)	15 minutes
Response Time	5 seconds to approx. 10 minutes (application and configuration dependent)
Alarm Capability	Audible and visual alarms
Software Control	Autonomous, remote, and/or PC interface
Operator Skills Required	Non-technical background
Training Available	Yes
Manual	Operator's manual