

When Compound Confirmation Really Matters

G908™ is an all-in-one, multi-column, plug-and-go device. This unique platform combines the selectivity of high-pressure mass spectrometry™ (HPMS), and the compound separating capability of ballistic gas chromatography with FID and TCD, into one rugged 28-pound analyzer. The operator-friendly JetStream system control and data analysis software seamlessly combines data from multiple detector channels into a single report, providing a fast, unified stream of quantitative results. This compact, but powerful, analyzer is easily deployable within production environments with no discernable reduction in performance. G908 reduces analysis times of a wide range of compounds from minutes to seconds – saving you time and money.

THE HPMS DIFFERENCE

Our unique approach to mass spectrometry, known as high-pressure mass spectrometry (HPMS), allows device designs to be drastically smaller than conventional mass spec instruments while also fundamentally lowering cost and maintenance burdens. HPMS enables mass spectrometry to be performed at much higher pressures – 10,000 times less vacuum than a conventional MS. HPMS not only allows several key components of the mass spectrometer to be miniaturized, it also completely removes the requirement for large, continuously operating vacuum pumps that limit deployment of conventional mass spectrometers within production environments. The unique proficiency of HPMS enables expanded analysis capabilities for in line, at-line, laboratory and field-based applications – all with one device.



G908

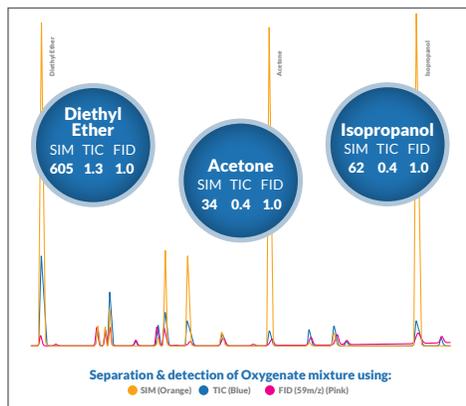
HIGHLIGHTS

- Replaceable HPMS compact core
- Ballistically heated capillary GC columns
- Smallest Size, Weight & Power Signature
- Operator centric JetStream user interface
- Low maintenance with user serviceable parts

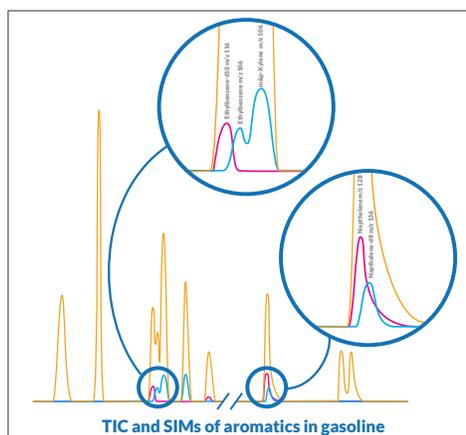




The rugged compact core technology is field serviceable.



The selectivity and sensitivity of G908 enables quantification of compounds at low-ppb levels in less than 5-minutes.



Single Ion Mode (SIM) extractions enable internal standard quantitation of gasoline aromatics in 360s.



JetStream Acquire User Interface allows real time G908 data acquisition and system status monitoring.

G908 is subject to export controls including those of the Export Administration Regulations of the U.S. Department of Commerce, which may restrict or require licenses for the export of product from the United States and their re-export to and from other countries.
 Patented technology www.908devices.com/patents
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Interface Specifications

Technology	High-Pressure Mass Spectrometry (HPMS)
Size	43 x 28 x 30cm (17 x 11 x 12 in)
Weight	12.7kg (28lbs)
Power Requirements	24VDC from external power supply 100-240VAC 50/60Hz
Operating Temperature	0-40°C (32-104°F)
Mass Spectrometer	Microscale 3D Ion Trap
Ionization Source	Non-radioactive, internal glow discharge ionization (70eV), positive mode.
Unit Mass Range	15-450 Da
Unit Mass Accuracy	1 m/z (40-250 m/z range with 100ppm BTEX calibration standard)
Scan Rate	10-40Hz
Trap Operating Temperature	120°C
Operating Vacuum	1-4 Torr
Injector	Split/Splitless 1:1 - 1:200
Injector Manifold Temp	350°C Max
Sample Injection	Manual/Valve/Autosampler
Injection Modes	Gas/Liquid/Headspace/SPME
Carrier Gas	He/H ₂ /N ₂
GC Columns	1 or 2 (4 or 8m) Capillary column modules
GC Column Heating	Resistive, Ambient - 400°C
GC Column Ramp Rate	0.1-5°C/second
GC Detectors	FID and/or TCD 350°C Max
Software	JetStream system control, data acquisition & processing software

G908 is the most flexible solution for in line, at-line, laboratory and remote field based qualitative and quantitative analysis.

- BTEX
- Aromatics
- Natural Gas
- Oxygenates
- Sulfur Species



Powered by
Compact MS Core Technology
 Our replaceable mass spec core contains molecular ion traps 1000 times smaller than those in conventional systems. These remarkable traps allow operation without extreme vacuum requirements and enable the use of dramatically simpler & more robust components.

ABOUT 908 DEVICES

908 Devices Inc. is democratizing chemical analysis by way of mass spectrometry. We make products ranging from rugged, handheld chemical detection tools to compact, tiny footprint analyzers and fast separation devices. These purpose-built and user-centric devices serve a range of industries including safety and security, life sciences, oil & gas, and other applied markets.

