

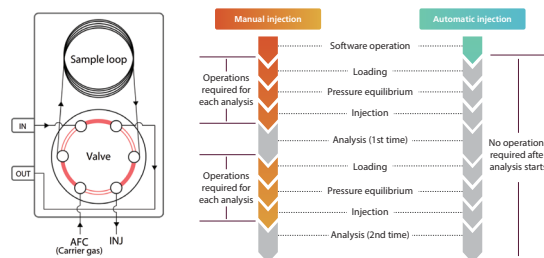
Achieve Fully Automated Gas Analysis With Auto Gas Injector GI-30



Load The GI-30, Press Start And Walk Away

A reliable automation breakthrough for gas analysis, the GI-30 is a compact, user-friendly unit that automates sampling while preserving total sample integrity.

Advanced environmental controls eliminate temperature interference and moisture buildup, while the SPI inlet locks out air ingress. The result is highly reliable, compliant data.



Benefits of GI-30 + SPI Setup Ⓢ Automated gas sampling Ⓢ Excellent leak prevention Ⓢ Low dead volume

Flexible Configurations Available To Meet Your Needs



Single Tower
Gastight syringe compatible



Single Tower
Optimized for automation



Hybrid Tower
Support gas and liquid injections



Dual Tower
GC-2060 only without VB-30-GS



Single Tower + VB-30-GS
Multi-sample capability

No.	GC Inlet	Detector	Application
1	SPL / WBI / SINJ / MMI*	FID / TCD	Trace CO in hydrogen
2	SPI	GCMS / BID / FPD / SCD	Evolved gas in LiB#
3	SPL / WBI / SINJ / MMI*	FID / TCD	Dissolved gas in liquid
4	Dual Inlet	Dual detectors	Hydrocarbons and inorganic gas
5	Direct to SUS packed column	FID / TCD	Impurities in inorganic gas

* Except for SPI, all other injection inlets can support both gas (GI-30 / gas tight syringe) and liquid injection (AOC-20i/30i)

A specialised sample tool is available for the analysis of evolved gas in lithium ion batteries

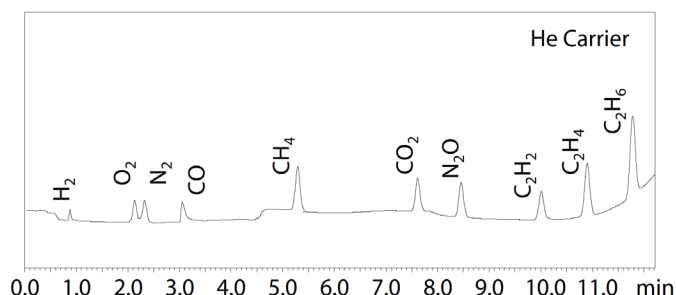
SPL = Split / Splitless Inlet, WBI = Wide Bore Inlet, SINJ = Single Packed Inlet, MMI = Multi-Mode Inlet

Maximized Resolution. Advanced Compound Detection

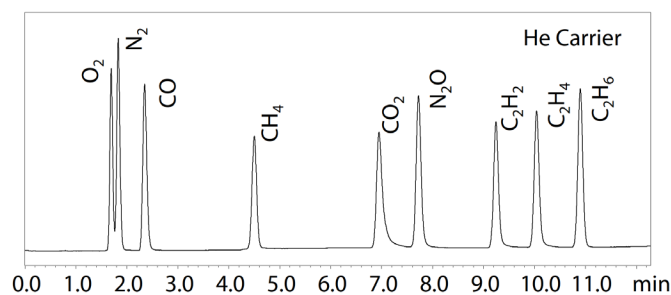
Enhance your GC and GC/MS capabilities with the GI-30. Pairing it with suitable columns enables efficient resolution of multiple peaks within a short run time. When integrated with an SPI-equipped GC/MS, the system leverages distinct m/z values to ensure reliable compound detection, even when chromatographic separation is not fully achieved. This versatile configuration also supports the stable, reproducible analysis of adsorptive gases.

Hydrocarbons And Inorganic Gases (BID / TCD)

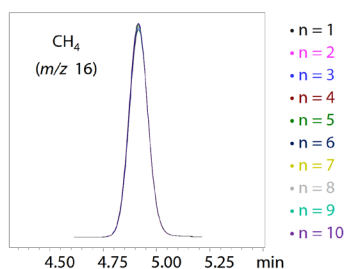
Line 1 – SPI with BID



Line 2 – SPL with TCD

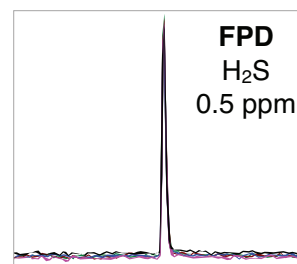
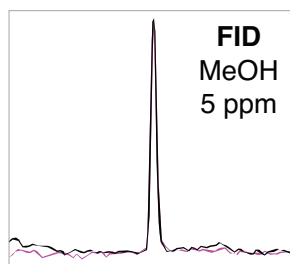


Hydrocarbons And Inorganic Gases (GC-MS)



[Read More Here](#)

Adsorptive MeOH and H2S (FID / FPD)



Selection And Configuration Guide For GI-30

Number of Sample Lines

The standard setup features one sample line. To expand to two lines (useful for standard gas connection), simply add the optional three-way valve. For higher throughput, add the VB-30-GS option to support up to six lines.

Note: The system does not support sample distribution to a dual-tower configuration

Sample Type

Directly analyze pressurized samples up to 100 kPa using the standard atmospheric pressure valve. For near-atmospheric samples (like gas bags or system-generated gases), utilize the optional pump unit. A sample volume of 50 mL is recommended. Volumes under 50 mL are acceptable only if O_2 and N_2 are absent and high quantitative precision is not critical.

Compatibility

- GC Systems: GC-2060, GC-2050, GC-2030
- GC/MS Systems: GCMS-QP2050, GCMS-QP2020 NX, GCMS-TQ8040 NX, GCMS-TQ8050 NX
- Software: LabSolutions GC, LabSolutions GCMS

Sample Contents And Concentration

For trace O_2 and N_2 analysis at single-ppm levels, install the optional valve purge unit to minimize air ingress, and use the dedicated connection kit for gas bags. If your samples contain non-volatile components at room temperature, a customized valve system is required to remove them before introduction.

Tip: The GI-30's built-in heater is designed to optimize analytical reproducibility, not to vaporize samples.



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