

GC Troubleshooting in the Palm of Your Hand

Agilent CrossLab CS Electronic Leak Detector
and ADM Flow Meter cartridge system





Now It's Easy to Keep Your GC Analysis at Full Flow

Every GC analyst knows that leaks can damage consumables and cause inaccurate or blank results. Your GC flow path is also vulnerable to issues like blockages and detector ignition problems—both of which can lead to decreased sensitivity.

To keep these problems in check, you might use a separate flow meter and leak detector. But what if you could combine both of these functions into a single tool? Now you can.

Introducing the Agilent CrossLab CS Electronic Leak Detector and ADM Flow Meter cartridge system. It combines the two most critical GC flow path monitoring tasks into a single handheld system that gives you:

- **All-in-one convenience.** A cartridge-based design combines leak detection and flow measurement into one ultimate GC diagnostics tool.
- **Ease of use.** Simply change the cartridge to swap between flow meter and leak detector functionalities.
- **High sensitivity.** The TCD sensor measures helium, hydrogen, and large nitrogen leaks so you can detect any changes in gas composition.
- **Reduced costs.** Save money by combining a flow meter and leak detector into a single bundle.

Environmental impact

The Agilent CrossLab CS Electronic Leak Detector and ADM Flow Meter cartridge system has been independently audited for its environmental impact and has received the ACT (Accountability, Consistency, Transparency) label, published by My Green Lab. See how you can reduce your lab's environmental impact with sustainability-driven innovation.

www.agilent.com/chem/mygreenlab





Twice the functionality for an easier day in the lab

Now GC flow path problems don't have to stop your lab productivity in its tracks. The CrossLab CS Electronic Leak Detector and ADM Flow Meter cartridge system combines two essential GC diagnostic tools into one convenient, cost-effective package.

Already have an Agilent ADM Flow Meter? Good news—the leak detector cartridge is fully compatible after a simple firmware update.

Simple to use, simple to own

Swapping or replacing a cartridge



- Press and hold the Power/Mode button for three seconds to power down the unit.
- Loosen both captive thumbscrews and lift the old cartridge out of its holder.
- Insert new cartridge into the holder. Hand-tighten the two captive thumbscrews.
- Install new flexible tubing, if needed.

Upgrading the firmware



Stop worrying about whether or not you have the correct firmware. When a newer version becomes available, you can complete your upgrade in minutes by using your computer and USB connection. So, you can future-proof your system and take advantage of the latest functions.

Calibration that's as simple as a cartridge change

Tired of filling out forms before sending out your flow meter for recalibration? Frustrated with waiting weeks for the meter to be returned?

An Agilent ADM Flow Meter does not have to be shipped back for recalibration to maintain NIST-traceable standards. Simply order a factory-precalibrated cartridge and swap it yourself within minutes.



What makes the leak detector so unique?



Less time

2 sec. response time and < 1.5 sec. zeroing time.



No hassle

USB firmware updatable and easy-swap cartridge system.



Confident readings

0.003 mL/min. sensitivity (helium) plus easy-read OLED display and 49.9 dB audible beep.

What makes the flow meter so unique?



No downtime

Avoid costly shipping charges. Recalibrate your flow meter—and keep it NIST certified—without ever shipping it outside your lab.



Cost savings

Save time associated with paperwork, packaging, and waiting for the flow meter to be returned.



Ease of use

Stop worrying about fees from unexpected repairs and firmware upgrades.

Agilent Inert GC Flow Path

Lower detection limits and confidently quantify active analytes



1 Ultra Inert inlet liners
Certified to provide low surface activity and highly reproducible sample vaporization.



6 Agilent J&W column smart key
Gather information on column use, configuration, age, temperature, and number of injections.



2 Ultra Inert gold inlet seals
Ensure a leak-free seal that reduces active analyte adsorption.



7 Agilent Self Tightening column nut
Get a leak-free connection without expensive upgrades or adaptors.



3 Agilent UltiMetal Plus flexible metal ferrules
The only ferrules that won't introduce active sites into the flow path.



8 Inert MS source
Ensure unmatched sensitivity when analytes reach the mass spectrometer.



4 Agilent J&W Ultra Inert GC column
Rigorously tested to ensure exceptionally low bleed and consistently high inertness.



9 Inert flow path split/splitless inlet
Hot metal surfaces of each weldment are treated to prevent adsorption and degradation.



5 Agilent Gas Clean filter
Remove contaminants and ensure the highest-quality gas.



Take a closer look:
www.agilent.com/chem/inert

Specifications and Ordering Information

Flow meter cartridge specifications

Parameter	Value
Flow range	0.5 to 750 mL/min, autoranging
Accuracy	± 2% of reading, or ± 0.2 mL/min, whichever is greater
Tubing temperature range	-62 to 110 °C
Operating temperature range	0 to 45 °C
Storage temperature range	-25 to 45 °C

Leak detector cartridge specifications

Parameter	Value
Sensitivity*	Helium 0.003 mL/min in atmosphere
Operating temperature range	0 to 45 °C (noncondensing)
Storage temperature range	-15 to 50 °C

* When verified with calibrated leak source at ambient temperature of 20 to 24 °C at standard atmospheric pressure.

Mainframe specifications

Parameter	Value
Power	Three AA batteries (alkaline) or USB power
Display	128 × 64 pixels monochrome with 16 grayscales
Dimensions	201 mm x 88 mm x 48 mm
Weight	420 g

Ordering information

Description	Part number
Agilent ADM Flow Meter	G6691A
ADM Flow meter replacement cartridge	G6692A
CrossLab CS Electronic Leak Detector	G6693A
Electronic leak detector cartridge only	G6694A
CrossLab CS Bundle: ADM Flow Meter and Electronic Leak Detector—includes 1 handheld unit, 2 cartridges, and a free carrying case	G6699A



Put our insight to work for you

CrossLab is an Agilent capability that integrates services and consumables to support workflow success, improve productivity, and enhance operational efficiency. In every interaction, we strive to provide insight that helps you achieve your goals.

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