



Take Control

IQ/OQ/PQ Kits, Tools and Software
for Analytical Instrument Qualification

VKIT-GFM3 Gas Flowmeter

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Specifically designed for gas chromatography, VKIT-GFM3 enables simple and accurate measurement of gas flow in GC systems.

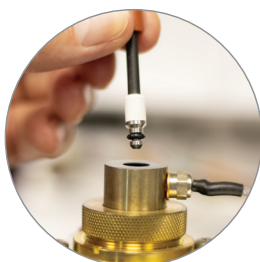
VKIT-GFM3 is the perfect tool for field service engineers and laboratory personnel performing OQ/PQ and other routine performance verification activities. It is supplied with a certificate of calibration.

Flow values are displayed in units of ml/min on a large LCD screen. A USB port is provided for connection to a PC, enabling compliance with the data integrity demands required in GxP environments.

VKIT-GFM3 improves on the classic, proven VKIT-GFM and the now obsolete ADM series flowmeter design by adding a larger LCD display, a re-chargeable Lithium ion battery and improved connectivity via USB.



Simplifies measurement
of GC flow zones



VKIT-1560 FID adaptor

Flowmeter specifications

- Accuracy: 0.4 ml/min or $\pm 2.5\%$ of the reading (whichever is greater)
- Resolution: 0.1ml/min
- Range: 0-500 ml/min (0-300 ml/min CO₂)
- Inlet Pressure: 25 psi (175kPa) maximum
- Gases: N₂, Air, He, H₂, CO₂, O₂, Ar, CH₄/Ar
- Calibration: Multi-point (0-400ml/min) with certificate of calibration
- Display: Backlit LCD
- Serial output to PC (requires optional cable)
- Dimensions: 68 x 130 x 30 mm
- Weight: 150g
- Battery: Re-chargeable Lithium ion, charging adaptor included or charge via micro-USB cable to PC
- Modes: Flow measurement, linear velocity and split ratio modes.

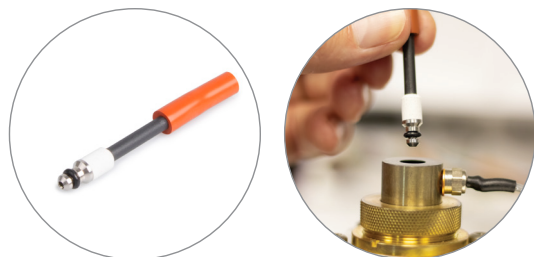
About V:Kit

V:Kit specialise in delivering solutions for Analytical Instrument Qualification. With a comprehensive range of measuring tools, software, protocols, standard operating procedures and certified standards, V:Kit products are used by OEMs, service providers and pharmaceutical laboratories worldwide.

Take control of your qualification needs with V:Kit.

Flow adaptor

VKIT-GFM3 can be specified with the optional VKIT-1560 FID adaptor for Agilent 6890 & 7890 GCs & Hewlett Packard 5890 GC. The adaptor connects the FID directly and easily to the inlet tube of the VKIT-GFM3 gas flowmeter. This allows easy measurement of H₂, Air and Make up gases directly from the FID exhaust.



GC Tools

The V:Kit tool range for GC systems includes

VKIT-DMA2 pressure meter for GC inlets, including split-splitless inlet adaptor.

VKIT-DTM2 2-channel thermometer with optional GC software.

VKIT-1531, 2-channel printing thermometer with built-in printer for simple, effective traceability.

VKIT-1517 GC Inlet Probe – a thermocouple probe with 51mm needle specifically for easy temperature measurement within GC inlets.

VKIT-1519 GC column oven probe has a 1.0 metre flexible stainless steel body with a Type K thermocouple mounted at the tip.

Ordering codes

VKIT-GFM3	V:Kit Gas Flowmeter, with calibration certificate
VKIT-1560	FID adaptor

VKIT-GFM3 Gas Flowmeter

V:Kit 5 AIQ Software

VKIT-GFM3 is compatible with V:Kit 5 analytical instrument qualification software. Qualify your laboratory systems with a 21 CFR Part 11 compliant package

- Generate comprehensive qualification documents with full traceability,
- Create, manage, and distribute secure, version controlled executable qualification protocols directly linked to Standard Operating Procedures and Certificates of Analysis.
- Manage your Analytical Equipment database.
- Share qualification results and protocols with your team. User account management with password expiry and security roles.
- Electronic Signatures, Audit Trail, Deviation Reporting.

Available for HPLC/UPLC, GC/GCMS, LCMS and MS/MS, Dissolution and UV-Vis.

V5-3001 GC Software

GC Software includes a wide range of tests for IQ/OQ/PQ for most GC configurations – FID, ECD, TCD, MS, with liquid or headspace.

- Inlet Pressure Accuracy
- Flow Rate Accuracy for inlet gases – split and purge
- Flow Rate Accuracy for detector gases
- Inlet temperature
- Column Oven Temperature Accuracy and Stability
- Column Oven Accuracy across Operating Range
- Injection Precision and Carryover (including RT precision)
- Response Linearity FID
- Noise and Drift
- Signal-to-noise