



HPLC liquid flowmeter

Specially designed for HPLC, the v-kit liquid flowmeter enables easy and accurate measurement of flow rates of common solvents used in HPLC pumps.

The v-kit HPLC liquid flowmeter displays the current flow rate in ml/min to four decimal places. An RS-232 port is provided for connection to a serial printer or data-logging device. Alternatively, the data can be read directly into v-kit auto-flow software to produce an audit-friendly, traceable report.

Using the HPLC liquid flowmeter and v-kit auto-flow software enables unattended operation — particularly useful when measuring the low flow rates associated with LCMS. With the flowmeter it's possible to diagnose common HPLC pump problems such as poorly functioning check valves or leaking pump seals.

The flowmeter is supplied with a calibration certificate traceable to UKAS (UK equivalent to NIST) and is ideal for IQ/OQ/PQ validations. Standard calibration points are 0.5, 1.0 and 2.0ml/min. The unit can also be supplied calibrated to user-specified flow rates.

The v-kit HPLC flowmeter is supplied with a tripod that allows quick and easy installation of the flowmeter on a bench.



HPLC flowmeter specifications

- 0.05 to 9.99ml/min flow range
- 1µl/min resolution
- 1, 2 or 3 point calibration with UKAS (UK equivalent of NIST) traceability calibration certificate
- PTFE, PEEK, FEP wetted parts
- 400µl sensor volume
- 24V DC UK (3pin UK 240V), EU (2-pin 220V) or USA (2-pin 120V) (state when ordering)
- Backlit LCD display
- Weight: 2kg
- Dimensions: 156mm x 103mm x 56mm (HxWxD)
- Integrated tripod stand allows easy positioning on the bench
- Supplied with sturdy carrying case

Key features:

- Portable, rugged unit
- 1µl resolution
- Recalibration service available
- Connects to any HPLC
- Suitable for IQ/OQ/PQ qualifications

For more information about the HPLC liquid flowmeter and other qualification tools, please visit our websites or get in touch with NLG Analytical:

www.nlg-analytical.com

www.v-kit.com

t: +44(0)1260 274-266

e: info@nlg-analytical.co.uk

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Add the benefits of AutoFlow

The v-kit flowmeter is also available with AutoFlow — a PC application that automatically captures data from the flowmeter, and produces a formatted report in tabular and graphical format, with calculation of mean flow, % deviation and RSD.

Unattended operation has various benefits, including:

- It allows the engineer to perform other tasks, such as detector calibration, while the flowmeter collects readings from the HPLC pump.
- Modern pumps, particularly those connected to LCMS systems, may be running at very low flow rates — so manually collecting data can be a tedious task for the operator.

Qualification tool calibration

NLG Analytical offers an efficient and cost-effective calibration service for a wide range of qualification tools including NAMAS/UKAS traceable calibration of HPLC liquid flowmeters.

Calibration service registration is available via the v-kit sections of our websites. We calibrate to standard and non-standard points. For more information, visit: www.v-kit.com/products/v-kit/calibration/

Ordering specifications

| Part number | Item |
|-----------------|---|
| VKIT-LFM | HPLC Flowmeter with single-point calibration |
| VKIT-LFM2 | HPLC Flowmeter with 2-point calibration |
| VKIT-LFM3 | HPLC Flowmeter with 3-point calibration |
| VKIT-LFM4 | HPLC Flowmeter with 4-point calibration |
| BNDL-VKIT-LFM | HPLC Flowmeter with 1-point calibration + AutoFlow starter kit |
| BNDL-VKIT-LFM2 | HPLC Flowmeter with 2-point calibration + AutoFlow starter kit |
| BNDL-VKIT-LFM3 | HPLC Flowmeter with 3-point calibration + AutoFlow starter kit |
| BNDL-VKIT-LFM4 | HPLC Flowmeter with 4-point calibration + AutoFlow starter kit |
| VKIT-IAF | AutoFlow starter kit |
| VKIT31-RAF | AutoFlow refill kit |
| RECAL-VKIT-LFM | Single-point calibration for HPLC liquid flowmeter |
| RECAL-VKIT-LFM2 | 2-point calibration for HPLC liquid flowmeter |
| RECAL-VKIT-LFM3 | 3-point calibration for HPLC liquid flowmeter |
| RECAL-VKIT-LFMC | Certifies your flowmeter in the condition we receive it |
| RECAL-VKIT-LFMX | Non-standard points are subject to acceptance by NLG Analytical calibration dept. |

to order call: +44(0)1260 274-266 e: info@nlg-analytical.com

Qualification tools

These recommended tools for HPLC OQ integrate with the v-kit software and procedures. The range has been designed to ensure accuracy as well as to help to speed up the instrument testing process. The calibration on all tools is valid for one year and includes traceable calibration certificates.



v-kit liquid flowmeter



HPLC Autosampler tray temperature probe



v-kit 2-channel thermometer