

LIQUID CHROMATOGRAPHY FLOWMETER

Model AB-40001



TESTA
ANALYTICAL
SOLUTIONS

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High Resolution, Non-invasive Flowmeter

Flow rate is one of the most important parameters in any liquid chromatography system, it determines retention time or volume and therefore has a major influence on reproducibility. The TESTA Analytical Liquid Chromatography Flowmeter (LCF) has set a new standard for non-invasive measurement of flow rate in HPLC, μ HPLC and GPC/SEC systems.

The LCF allows users to now set the optimal integration time to suit different applications. For example - sampling data every 0.1 seconds is optimal for real-time monitoring of HPLC pump performance whereas sampling data every 10 seconds is best for absolute flow rate calibration.



The latest version of the LCF also offers the possibility for users to store on-board different calibration factors for different solvents, along with saving a clear text name of the solvent in use. Furthermore, improved communications data buffering assures that no data is lost even if the device temporarily loses connection to your PC.

Compact in size, and conveniently powered via a USB connection, the TESTA Analytical LCF uses a thermal flow sensor that is not only extremely accurate, sensitive and high-resolution – but it also offers the advantage of being non-invasive. As the sensor does not interfere with the measurement it can operate over a wide dynamic range the LCF the perfect real-time flow monitoring tool for liquid chromatography applications including calibrating the flow rate of HPLC pumps, troubleshooting defective systems, and continuously validation for regulated products.

Technical Data

The AB-40001 LCF is specifically designed for continuous measurement of flow rate without interference in chromatography systems. Compatible with all HPLC and GPC/SEC solvents, it is conveniently sized and powers itself from a USB connection. A modern PC based app allows continuous recording and storage of the measured flow rates. The current flow rate is also displayed on the flowmeter's integral high-resolution OLED Display, allowing easy control of current flow value. Extraordinary high resolution and wide dynamic range makes the TESTA LCF the perfect flow monitoring tool for the most demanding HPLC and GPC/SEC systems.

Name and Calibration factors for up to five, user selectable, solvents can be stored directly in the device and selected as needed.

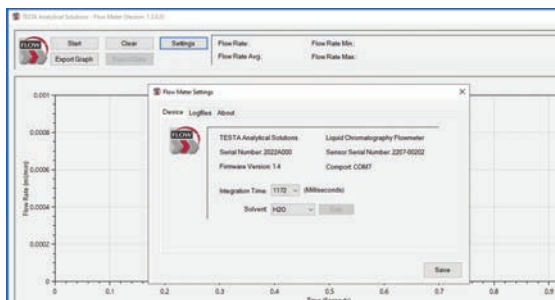
Further to this, five different modes of operation are available in order to select the most appropriate mode for the given application. Advanced internal data buffering ensures furthermore flawless transfer of data to a connected PC.

Measuring Range	0.001 mL/min to 5.000 mL/min	Portable robust unit with 1µL resolution
Maximum resolution	>0.0005 mL/min	
Accuracy	>0.2 % FSD	
Precision	>0.2 % FSD	Re-calibration service is available
Maximum Pressure	3MPa (435 psi)	
pH operating range	1 to 11	
Measuring Cell Volume	140µL	Unit connects to any Chromatograph
Sensor Module	Robust, thermal- and chemical-resistant borosilicate glass capillary (Quartz) and PEEK	
Display	High-resolution OLED Display with online flow rate, status & settings information	
Control	Easy to use with USB-powered plug and play functionality	Perfect for IQ OQ PQ qualification
Calibration	Customized digital calibration	
Dimensions	40 x 20 x 70 mm (W x H x D)	
Weight	0,2 kg	

A policy of continual improvement may lead to specification changes.

Flowmeter Software App

Version 1.7 of our PC software app provides full control of the LCF. Using this powerful, yet easy-to-use software you can quickly set-up key experimental parameters such as integration time and calibration



factor on the flowmeter via its USB Interface. Using the software flow data can be acquired and visually displayed in real time. The software report function provides average and min/max values of the measured flow. All flow data is stored automatically in files that can be easily processed later using most commercial data analysis packages. The software app is a dependable, easy to use tool designed for everyday use. It is simple to install and opens the door

to continuous monitoring of flow, whether in HPLC, Flow Chemistry or Peristaltic Pumping applications. The app supports simultaneous connection of multiple flowmeters to the same PC.

If you want...



... Improved Results

Supplied digitally calibrated the AB-40001 delivers high precision and accuracy across a wide measurement range.



... Ease of Use

The AB-40001 fits in the palm of your hand and weighs less than your smartphone.



... Reliable Trouble-free Operation

The ultra-reliable AB-40001 is compatible with almost any chromatograph.

...then choose the **TESTA Analytical Solutions**
Liquid Chromatography Flowmeter!

Content Delivery

Qty Content

- 1 Liquid Chromatography Flowmeter
- 1 USB cable, 2m
- 1 USB Stick incl. Software Package & Documents
- 1 PFA tubing 1/8" OD x 1/16" ID, 1m
- 2 ETFE ferrule 1/8" with SS lock ring
- 2 Nut 1/4" for 1/8" OD tubing
- 1 Fitting 1/4" for 1/16" OD tubing
- 1 Restrictor tubing 1/16" OD x 0,17 ID
- 2 Sticky pads, OD 20mm



Ordering Information

AB-40001 Liquid Chromatography Flowmeter

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