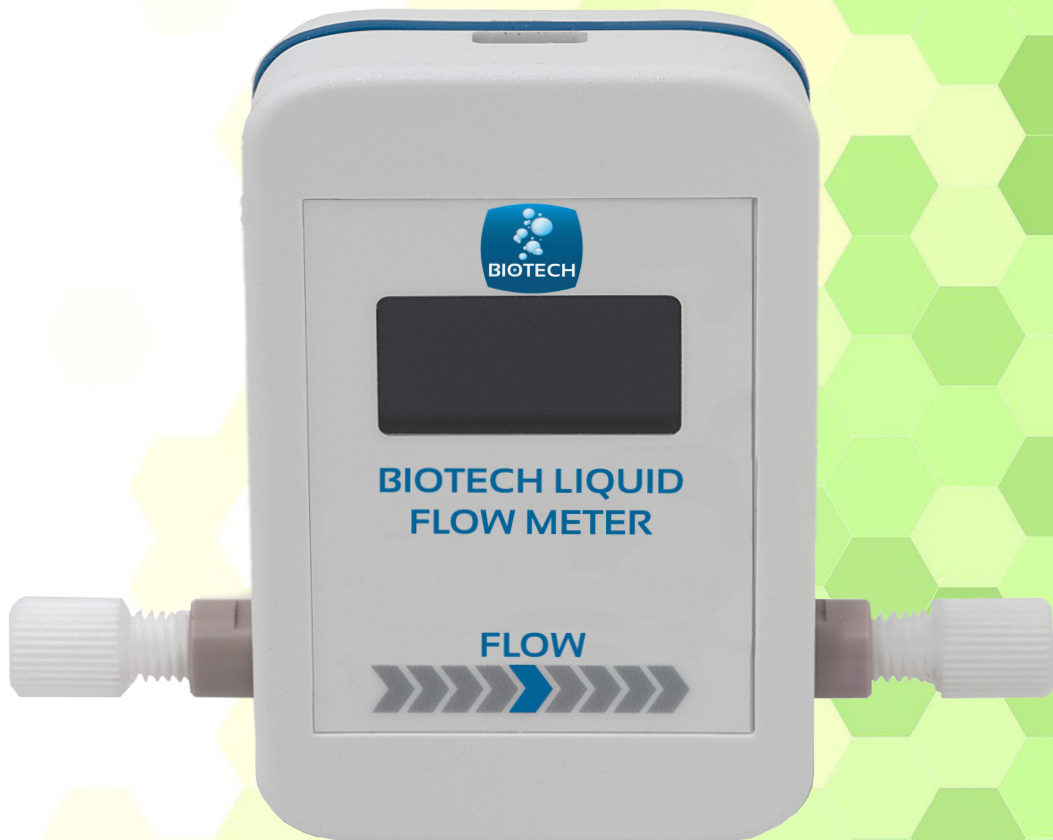


# BIOTECH LIQUID FLOW METER



Measures continuous flow rates without  
interference in your fluidic systems

# Biotech Introduces a Unique Pocket-Sized High Resolution Liquid Flow Meter



The new Biotech Liquid Flow Meter can continuously and accurately determine inline flow rates in any mode of liquid chromatography without system interference. It is compatible with all HPLC and GPC solvents, conveniently sized and powers itself from a USB connection.

It is very easy to use, small enough to fit in your hand or lab coat pocket – weighing less than your cell phone!

The Biotech Liquid Flow Meter comes pre-calibrated and can be connected inline in any orientation to continuously measure flow rates.



## **Improved Results**

Supplied digitally calibrated, the AB-40010 delivers high-precision and accuracy across a wide measurement range.

Validate your system and get pump performance diagnostics at the same time!



## **Ease of Use**

Specially designed app for easy interaction.

- Save the data to your system
- Set the integration time - from continuous reading up to 10 seconds
- Choose between 5 different pre-calibrated solvents, or add your own!



## **Reliable Trouble-free Operation**

The ultra-reliable AB-40010 is suitable for virtually any flow application and compatible with all standard GPC/HPLC solvents.



## **Application Areas**

- Chromatography – validation & diagnostic purpose
- Peristaltic pump monitoring
- Flow chemistry
- Process flow applications



## Technical Data

The Biotech Liquid Flow Meter is specifically designed for continuous measurement of flow rate without interference in liquid chromatography systems. Being compatible with most solvents, a wide pH range, and pressures up to 3 MPa (435 psi), it is the perfect tool for high-precision measurement of flow rates ranging from 0.001 to 5 mL/min.

Via its USB interface and modern PC application, data is recorded as time series, which is helpful when troubleshooting pumps, check valves or other malfunctioning components in liquid chromatography equipment.

The app allows the user to select the integration interval for average flow rate or pump performance. Current flow rate is displayed on the Flow Meter's integral high-resolution OLED display while recording and storing the measured flow rates. Extraordinary high resolution and wide dynamic range make the Biotech Liquid Flow Meter the perfect flow monitoring tool for the most demanding HPLC and GPC systems.

Measuring Range	0.001 ml/min to 5.000 ml/min
Maximum resolution	>0.0005 ml/min
Accuracy	>0.2 % FSD
Precision	>0.2 % FSD
Integration Time Factor	78, 312 (Default), 1172, 5781, 9844 (Milliseconds)
Maximum Pressure	3MPa (435 psi)
pH Operating Range	1 to 11
Measuring Cell Volume	94µl
Cell Diameter	1.8mm
Cell Length	37mm
Pressure Drop	0.12millibar at 5ml/min of water
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
Calibration	<ul style="list-style-type: none"><li>• Water Validated</li><li>• MeOH, THF, EtOH/Water, ACN/Water Pre-set</li><li>• Customer chosen alternative</li></ul>
Dimensions	40 x 20 x 70 mm (W x H x D)
Weight	0.2 kg

Portable robust Unit  
with 1µl Resolution.

Easy Time Factor  
Selection

Unit connects to  
any Chromatograph

Perfect for IQ, OQ,  
& PQ Validation

## PACKING LIST

Qty	Content	P/N
1	Liquid Chromatography Flow Meter	
1	USB Cable, 1 m	
2	Plug, PFA, 1/4"-28 Flat-Bottom	P-316
2	Tubing, FEP, 1/16" OD x 0.75 mm ID x 0.4m Long	
3	Nut, One-piece Super Flangeless™, PEEK, Flat-Bottom, 1/4"-28, 1/16" ID	P-249
1	Coned Fitting, One-piece, PEEK, 10-32, 1/16" ID	F-120
2	Stickypads	
1	User Manual	
1	White Case with Blue Caps	
1	Link to Download App	



## Ordering Information

AB-40010 Biotech Liquid Flow Meter



For ordering and technical support, please contact:

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