



UniGo Microfluidic Pump Accurate and Pulse-Free Flow for Microfluidic Applications

O SUPERIOR PERFORMANCE

UniGo microfluidic pump is a precision pressure pump for a variety of microfluidic applications, where accurate and stable flow rate delivery is required.

MODULAR

Up to 4 UniGo microfluidic pumps racked together allowing simultaneous control and independent programming of each pump's flow profile.

😳 EASY TO USE

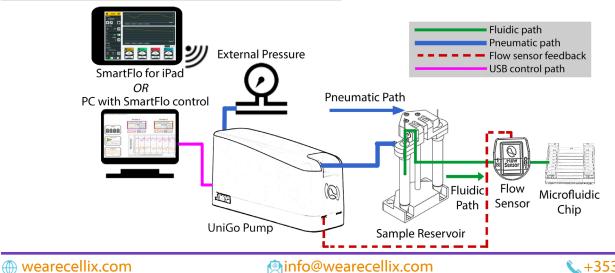
Control all the features of the pump with the SmartFlo app running on iPad mini or PC.



Ð	FAST	Fast response time and settling time	¢Ξ	PROGRAMMABLE	Program your own flow profile with any combination of constant, ramp, sine and step.
t_,	PULSE FREE	Achieve precise and pulse-less flow.	° 0	EASY INTEGRATION	Integrate the pump control on your own software using LabVIEW, C++, Python, etc.
æ	VERSATILE	Combine it with ExiGo pumps to get the best features of both pressure and syringe pumps in one microfluidic set-up.	ſ	CLOSED-LOOP FEEDBACK	Integrates a plug-and-play flow sensor for active feedback and precise flow control.

How does it work?

MAIN BENEFITS





TECHNICAL SPECIFICATIONS

Input Pressure	Up to 10 bar or 145PSI or vacuum -0.9bar ⁽¹⁾		
Volumetric Flow Rates	1μL/min to 1mL/min		
Flow Direction	Unidirectional (Push or Pull)		
Pulse-free flow rate for microfluidic applications	1μL/min - 80μL/min (± 120nL/min) ⁽²⁾ 10μL/min - 1mL/min (± 2μL/min) ⁽³⁾		
Flow feedback options	Pressure-flow combined or Pressure only		
Fast response	<50ms		
Software Control	SmartFlo App running on iPad mini or PC		
Dimensions	225mm (L) x 69mm (W) x 122mm (H)		
Weight	~1.3kg		
Power Requirements	110/220V - 50/60Hz 60W		

(1) External compressor or vacuum required.

(2) Using a 80µL/min sensor (FS80.0)

(3) Using a 1mL/min sensor (FS-1000).

APPLICATIONS

- ✓ Droplet Generation
- ✓ Organ-on-chip studies
- ✓ VOC experimental set-ups
- Shear based cell rolling, adhesion and transmigration assays on ligand-coated surfaces or endothelial cells
- Cell and particle manipulation
- ✓ Precise multichannel mixing
- ✓ Bacterial biofilm formation on solid surfaces

What's included?

	INCLUDED	OPTIONAL			
UniGo pump	♥				
Flow Sensor (4)		•			
iPad Mini ⁽⁵⁾		•			
Sample Reservoir		⊘			
Fluidic Manifold		Ø			
(4) More information available on www.wearecellix.com/flowsensors					

(5) SmartFlo is controlled via iPad or PC. Please contact Cellix for more information.