



## Technical Note

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Flow Sensors

## Flow Sensors for Microfluidic Pumps: providing accurate and pulse-free flow rates for microfluidic applications

Flow sensors for Cellix's microfluidic pumps enable active feedback and PID control.

Ideal for microfluidic applications, where accurate and stable flow rate delivery is required resulting in superior performance.

Flow sensors are compatible with the ExiGo, UniGo and 4U microfluidic pumps.



Flow sensor



Flow sensors connected to ExiGo™ pumps

### Performance and Technical Specifications:

Technical specifications	
Operation	Plug and play connection to the ExiGo, UniGo and 4U microfluidic pumps
Features	Allows monitoring of pump flow rate and active PID (proportional, integral, differential) feedback of pump flow rate

Sensor:	7 $\mu$ L	80 $\mu$ L	1 mL
Measured flow ranges	$\pm 7,000$ nL/min ( $\equiv 7$ $\mu$ L/min)	$\pm 80,000$ nL/min ( $\equiv 80$ $\mu$ L/min)	$\pm 1$ mL/min ( $\equiv 1,000$ $\mu$ L/min)
Accuracy (whichever value is higher)	0.3% full scale (21 nL/min) 5% of measured value	0.15% full scale (120 nL/min) 5% of measured value	0.2% full scale (2 $\mu$ L/min) 5% of measured value
Dead volume	1.5 $\mu$ L	5.0 $\mu$ L	25.0 $\mu$ L
Operating pressure	100 bar	15 bar	15 bar
Code	FS-7.0	FS-80.0	FS-1000
Dimensions	60 mm (L) x 51 mm (W) x 21 mm (H)		
Weight	<0.1 kg		
Power	Via cable to ExiGo, UniGo or 4U microfluidic pump		