

## FLOW UNIT

### *BIDIRECTIONAL INDIVIDUAL FLOW SENSORS*

FLU-XS

FLU-S-D

FLU-M-D

FLU-L-D

FLU-XL



Fluigent's FLOW UNIT is a unique tool to easily monitor all the flow-rates in any microfluidic system with the best precision and accuracy:

- A micro heater provides a minimal amount of heat to the medium monitored (around 1°C)
- Two temperature sensors, located on both sides of the heater, detect any temperature variation. The flow-rate is then calculated based on the spread of heat, which is directly related to the flow-rate.

## BENEFITS



### **High repeatability**

Tunable to your liquids



### **Wide range of detection**

From 7nL/min to 5mL/min



### **EASY TO USE**

Set and measure in a minute



### **VERSATILITY**

compatible with any flow controller

# SPECIFICATIONS

FLOW UNIT	XS	S		M		L		XL
<i>product number</i>	<i>FLU-XS</i>	<i>FLU-S-D</i>		<i>FLU-M-D</i>		<i>FLU-L-D</i>		<i>FLU-XL</i>
<b>Sensor inner diameter</b>	25µm	150µm		430µm		1.0mm		1.8mm
<b>Maximum Pressure</b>	200 bar	200 bar		100 bar		15 bar		15 bar
<b>Wetted materials</b>	PEEK & Quartz Glass	PEEK & Quartz Glass		PEEK & Borosilicate Glass		PEEK & Borosilicate Glass		PEEK & Borosilicate Glass
<b>Calibrated media</b>	Water	water	IPA	water	IPA	water	IPA	water
<b>Range</b>	0±1.5µL/min	0±7µL/min	0±70µL/min	0±80µL/min	0±500µL/min	0±1mL/min	0±10mL/min	0±5mL/min*
<b>Accuracy (m.v. = measured value)</b>	10% m.v. above 75 nL/min	5% m.v. above 0.42 µL/min	20% m.v. above 4.2 µL/min	5% m.v. above 2.4 µL/min	20% m.v. above 25 µL/min	5% m.v. above 0.04 mL/min	20% m.v. above 0.5 mL/min	5% m.v. above 0.2 mL/min
<b>Accuracy also applies to negative values</b>	7.5 nL/min below 75 nL/min	21 nL/min below 0.42 µL/min	210 nL/min below 4.2 µL/min	0.12 µL/min below 2.4 µL/min	0.12 µL/min below 2.4 µL/min	1.5 µL/min below 0.04 mL/min	100 µL/min below 0.5 mL/min	10 µL/min below 0.2 mL/min