

FLOW RATE PLATFORM

MICROFLUIDIC FLOW SENSORS HUB

FLU-XS-8

FLU-S-D-8

FLU-M-D-8

FLU-L-D-8

FLU-XL-8

FLP-BASE-4

FLP-BASE-8



The FRP is a compact device that integrates 4 or 8 bidirectional microfluidic flow sensors (Flow UNIT).

This device allows one to monitor all flow rates in any microfluidic system with precision and accuracy. The integrated sensors can have different flow ranges, depending on the user's needs.

BENEFITS



Compact

Uses minimum bench space



Wide range of detection

From 7nL/min to 5mL/min



Easy to use

Straight forward set up & use



Adaptable

Compatible with any flow controller

FRP4/FRP8	Product number	Weight (including the sensors)	Dimensions	Cable length
FRP4 casing	FLP-BASE-4	270 g	12.9 cm (l) x 7.3 cm (w) x 5.2 cm (h)	1.5 m
FRP8 casing	FLP-BASE-8	310 g	12.9 cm (l) x 7.3 cm (w) x 5.2 cm (h)	1.5 m

FLOW UNIT	XS	S		M		L		XL
product number	FLU-XS-8	FLU-S-D-8		FLU-M-D-8		FLU-L-D-8		FLU-XL-8
Sensor inner diameter	25µm	150µm		430µm		1.0mm		1.8mm
Total internal volume	1 µL	1.5 µL		5 µL		25 µL		80 µL
Maximum Pressure	200 bar	200 bar		100 bar		15 bar		15 bar
Wetted materials	PEEK & Quartz Glass	PEEK & Quartz Glass		PEEK & Borosilicate Glass		PEEK & Borosilicate Glass		PEEK & Borosilicate Glass
Fluid connector ports	UNF 6-40 for 1/32" OD tubing	UNF 6-40 for 1/32" OD tubing		UNF 6-40 for 1/32" OD tubing		UN Flangeless fitting 1/4 - 28		UN Flangeless fitting 1/4 - 28
Calibrated media	Water	water	IPA	water	IPA	water	IPA	water
Range	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*
Accuracy (m.v. = measured value) Accuracy also applies to negative values	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
	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
Lowest detectable flow	3.7 nL/min	10 nL/min		0.06 µL/min		0.7 µL/min		3 µL/min

Note that the maximum pressure depends on the FLOW UNIT model. Ensure that the pressure applied to a FLOW UNIT does not go beyond this value Exceeding the maximum pressure may damage the flow sensor.