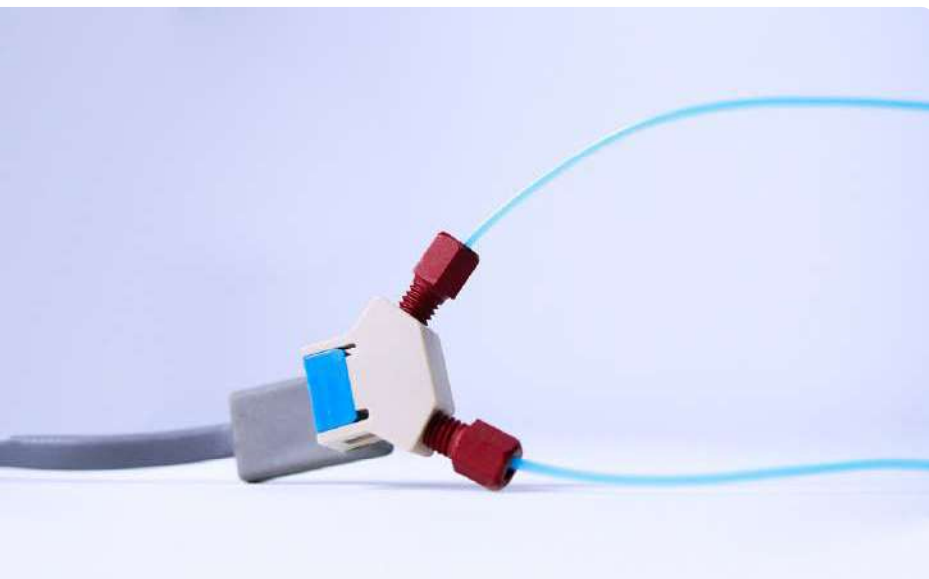


MPS LOW VOLUME PRESSURE SENSOR

ELVEFLOW.COM/MICROFLUIDIC-FLOW-CONTROL-PRODUCTS/MICROFLUIDIC-FLOW-CONTROL-MODULE/MICROFLUIDIC-LIQUID-FLOW-THROUGH-PRESSURE-SENSOR/



MEASURE AND CONTROL PRESSURE ANYWHERE IN YOUR SETUP



High accuracy pressure sensor adapted to liquid and gas and compatible with 3/32" ID tubing or 10-32 fittings for 1/16" OD tubing. Ideal for monitoring **low pressure flow rate** in your microfluidic setup.

UNIQUE PERFORMANCES

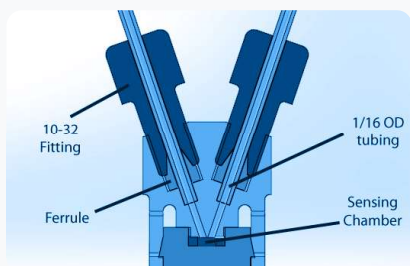
- > Accuracy **down to 0.2 % FS**
- > 5 ranges **from 70 mbar to 7,000 mbar**
- > Internal volume: **7 μ L**
- > Settling time: **20 ms**
- > Works with both **liquid & gas**

✓ **PRESSURE FEEDBACK OPTION**

✓ **MEASUREMENT & DETECTION**

APPLICATIONS

- > By plugging our pressure sensor anywhere in your microfluidic setup, you can record the pressure on your computer and adjust it accordingly using our pressure pumps



OUR PRESSURE SENSORS WORK AS GAUGE PRESSURE SENSORS,

measuring positive and negative pressure relatively to atmospheric pressure.

MICROFLUIDIC PRESSURE SENSOR	MPS 0	MPS 1	MPS 2	MPS 3	MPS 4	
Pressure range	-70 to 70 mbar (-1 to 1 psi)	-340 to 340 mbar (-5 to 5 psi)	-1 to 1 bar (-15 to 15 psi)	-1 to 2 bar (-15 to 30 psi)	-1 to 7 bar (-15 to 100 psi)	
Maximum overpressure	1.4 bar (20 psi)	1.4 bar (20 psi)	3 bar (45 psi)	3 bar (60 psi)	14 bar (200 psi)	
Pressure accuracy liquids	up to ± 0.5 % of max range		up to ± 0.2 % of max range			
Linearity %span	Typical	0.25	0.4	0.25	0.1	0.4
	Max.	0.5	0.5	0.5	0.2	0.6
Repeatability & hysteresis %span	± 3.0		± 0.4			± 0.2
Operating temperature	-40 °C to +85 °C					
Specified temperature range	0 °C to +50 °C					

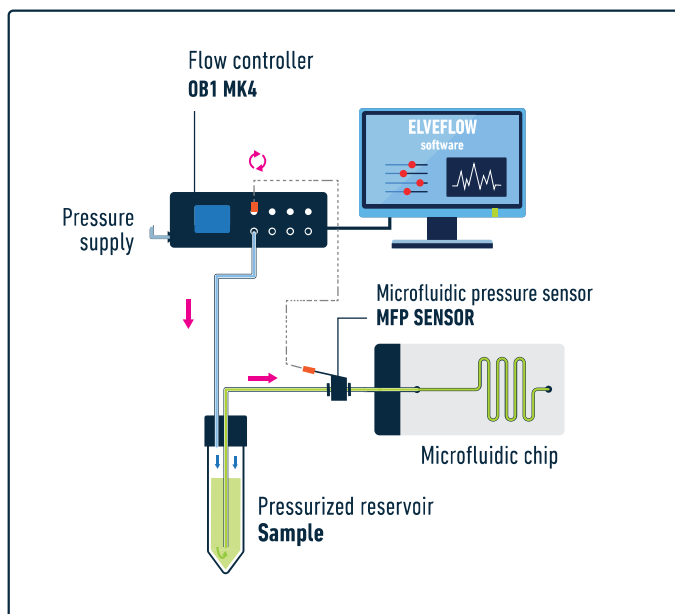
Non-contractual information, may be changed without notice.

PACKAGE MODEL	LARGE	SMALL
Sensor design		
Connection type	3/32 barb	10-32 thread with ferrule
Internal volume	70 µL	7.5 µL
Recommended tubing diameter (inch)	3/32" ID	1/16" OD
Wetted materials	polyetherimide, silicon and fluorosilicone seal	PEEK, silicon and fluorosilicone seal
Electrical connection	4 point measurement M8 connector compatible with Elveflow Sensor Reader and a Sensor Reader	

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SENSOR SIZE (length x width x height): **LARGE:** 29 x 13 x 27 mm **SMALL:** 40 x 33 x 19 mm **AMPLIFICATION MODULE SIZE:** 52 x 24 x 24 mm

WITH FLOW CONTROLLER: MONITORING + CONTROL



WITH SENSOR READER: MONITORING

