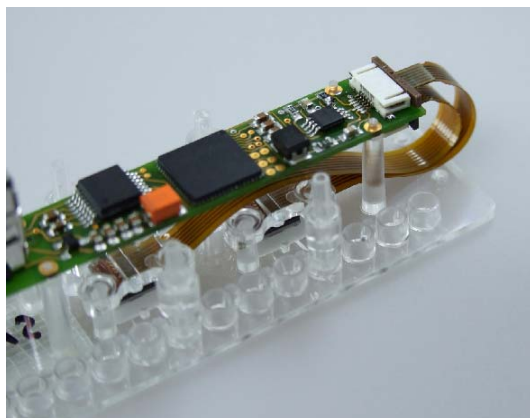


Flow sensor module

The microBUILDER flow sensor module consists of two silicon flow sensor chips, read-out electronics with analogue and digital output and polymer packaging containing standardized fluidic connectors. The module fits into the microBUILDER Microfluidic Construction Kit - a modular platform enabling the easy setup of microfluidic systems by combining available modules, each designed to perform microfluidic operations like pumping, mixing and splitting.



Flow sensor module



Flow sensor module without cover

Specification:

Number of sensors:	2
Flow range:	0 – 30 ml/min (modifiable)
Pressures range:	0 – 50 kPa
Media:	Water, methyl- & ethyl- alcohol, weak acids & bases
Power supply:	5 – 18 V DC
Analogue output:	0 – 2.5 V (modifiable)
Digital interface:	RS232



Microfluidic Construction Kit

Applications:

Beside the use in the microfluidic construction kit, the flow sensor module can be used for proof of principle investigations for all kinds of application fields where liquid (and gaseous) flows have to be precisely measured and controlled, such as:

- Laboratory equipment
- Medical technology
- Ecology and Biotechnology

Flow and pressure range, electric and electronic interfaces, as well as the packaging can be adapted to specific applications upon request.

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Contributing partners

