

MSR SENSOR READING UNIT

ELVEFLOW.COM/MICROFLUIDIC-PRODUCTS/MICROFLUIDICS-FLOW-MEASUREMENT-SENSORS/MICROFLUIDIC-SENSOR-READER/



AN ACQUISITION INTERFACE FOR ALL SENSORS



The sensor reader is an interface allowing the **acquisition** of many kinds of **analog & digital sensors**, including Elveflow pressure sensors and flow sensors.

✓ **MONITOR UP TO 4 SENSORS**

✓ **REAL-TIME CONTROL & FEEDBACK**

UNIQUE PERFORMANCES

- > Fast acquisition frequency **1 kHz**
- > From **9 to 16 bits resolution**
- > Real-time control & **feedback loops**
- > Read simultaneously **up to 4 sensors**

APPLICATIONS

- > The Sensor Reader can be used to monitor flow rate, pressure, or other physical parameters on any type of flow control instrument (syringe pump, peristaltic pump, perfusion, pressure controller)
- > It embeds different independent power supplies which allows the use of a wide variety of sensors simultaneously, functioning with different voltages for their power supply

SENSOR READER UNIT	SPECIFICATIONS
Number of sensors	4
Sensor connectors	M8 female (4 pins)
USB reading current min - max	200 mA - 800 mA
Sensor power supplies voltage (2 power supplies tunable independently each of which feeding 2 sensors)	5 - 24 V
Total power on the 4 channels	0.9 W
SENSOR INPUTS	
Impedance	1 MΩ
Acquisition frequency	200 Hz
Acquisition resolution	from 9 to 16 bits
Input range	0 - 10 V
Resolution (1 bit)	5 mV
Noise (full band)	5 mV rms
Compatible sensors	MFS flow sensor, MPS pressure sensor, MFP pressure sensor, MBD bubble detector

SENSOR READER SIZE without connectors (length x width x height): 91 x 69 x 29 mm **WEIGHT:** 320 g

Non-contractual information, may be changed without notice.