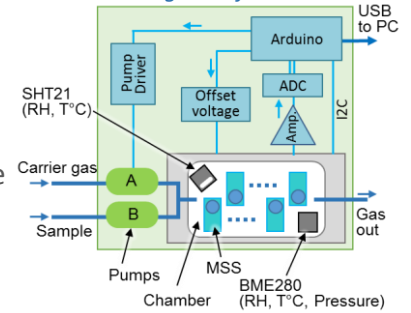


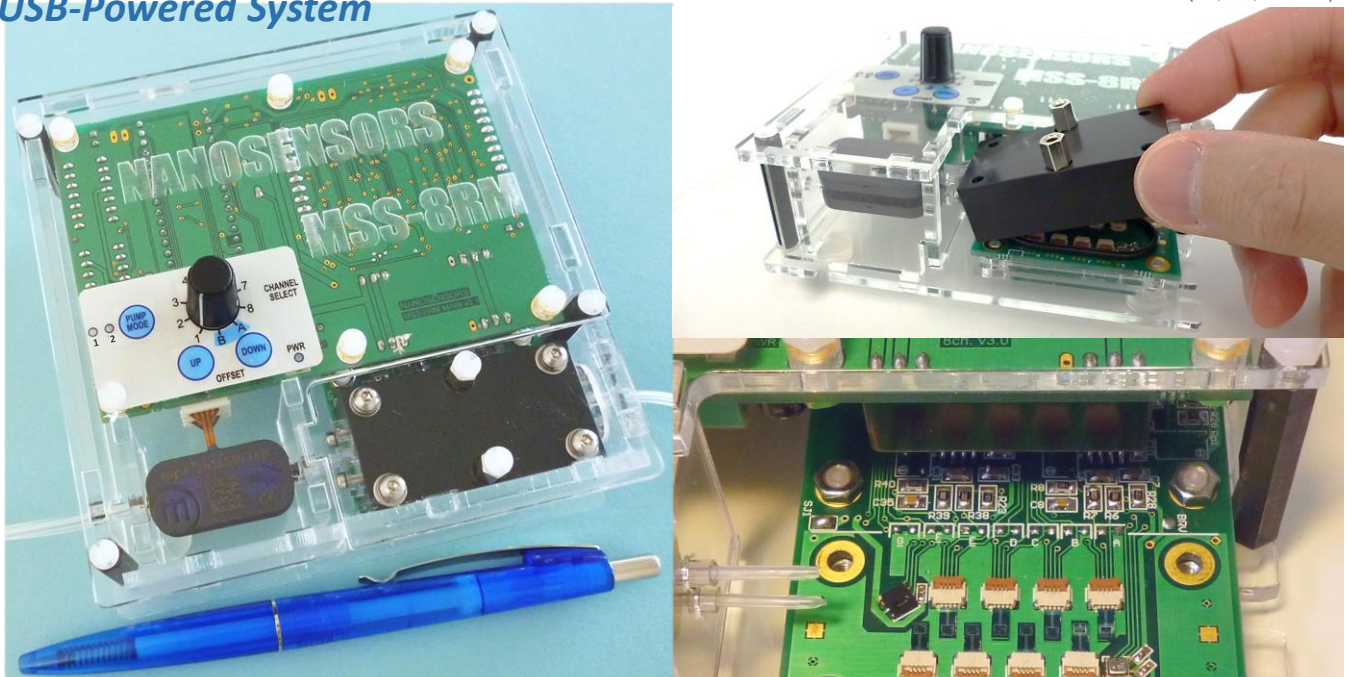
## MSS 8 Channel Readout Module (MSS-8RM)

In the field of electronic nose/odor sensing, one of the important subjects is to develop a specific receptor layer which binds only with a target gas/molecule. **NANOSENSORS™** is commercializing the Membrane-type Surface-stress Sensor (**MSS**), piezoresistive nanomechanical sensor, to support R&D in this field. **MSS-8RM** is a basic electronic module to operate and to readout **NANOSENSORS™ MSS**, up to 8 sensors simultaneously, under a hardware configuration for electronic nose/odor sensing.

Block diagram of MSS-8RM



### USB-Powered System



"All-in-one" system for Electronic Nose/ Odor Sensing R&D with 8x MSS and 2x commercial sensors (RH, T°C, Pressure).

**MSS-8RM** contains two air pumps and users can examine self-prepared **MSS** under different gas flow conditions. **MSS-8RM** is designed as simply as possible so that users can learn about a basic E-nose system and further improve the system performance.

**Note that MSS-8RM does not include any data processing functions to distinguish one sample from the other. You will get raw numerical data of the sensor responses under different conditions as final output.**

- **Arduino** microcontroller board and software
- Two air pumps included
- Two discrete sensors (Sensirion SHT21, Bosch BME280)
- Only USB power
- 10 **MSS** chips (SD-MSS-1K2G) included in the package

**NANOSENSORS™**  
Rue des Saars 10  
2000 Neuchâtel  
Switzerland

phone: +41 (0)32 552 15 21  
fax : +41 (0)32 552 15 22  
E-mail: info@nanosensors.com

Specifications are subject to change without notice.  
NS-MSS-8RM-V1.16

