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 readout NANOSENSORS™ MSS, up to 8 sensors simultaneously, under a hardware configuration for electronic nose/odor sensing.

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