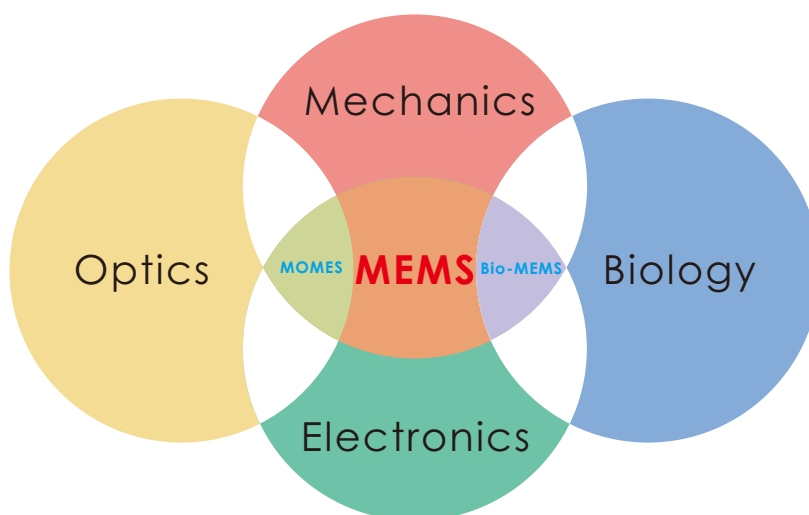




KL-630 MEMS Training System

MEMS Depiction

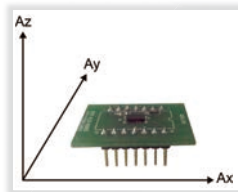
MEMS (Micro-electromechanical Systems) based sensors, such as accelerometers, gyroscopes and magnetometers, are crucial components used in smart portable devices, like smartphones and tablets.



Learning Targets

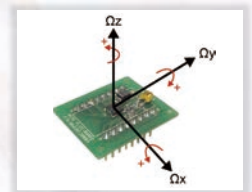
KL-630 is the world's first MEMS-based training system. It is designed to facilitate systematic learning in a variety of MEMS functions and applications. The training system introduces four types of MEMS-based sensors, including 3-axis accelerometers, 3-axis gyroscopes, barometers and magnetometers. To ensure the quality of experiments, the module with the XYZ- Axis rotation stand was designed to carry out three-dimensional motion experiments through the operation of the accelerometer module and the gyroscope module.

3-Axis Accelerometer Unit (KL-67001)



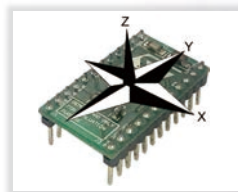
Direction of acceleration

3-Axis Gyroscope Unit (KL-67002)



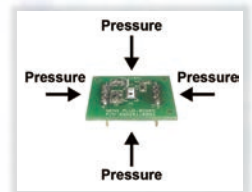
Direction of angular velocity

Magnetometer Unit (KL-67003)



Direction of magnetic field

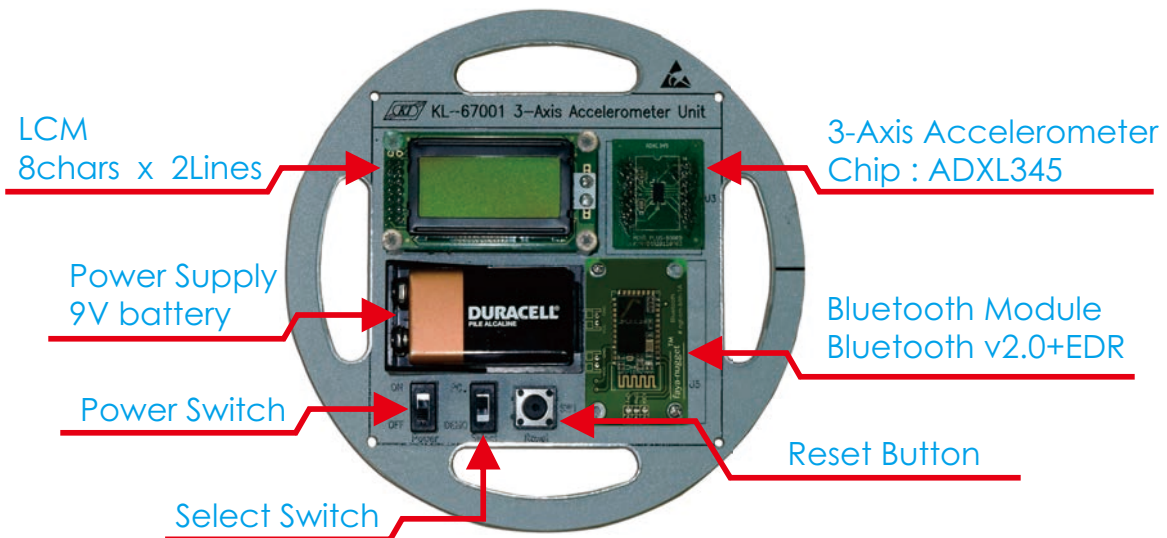
Digital Barometer Unit (KL-67004)



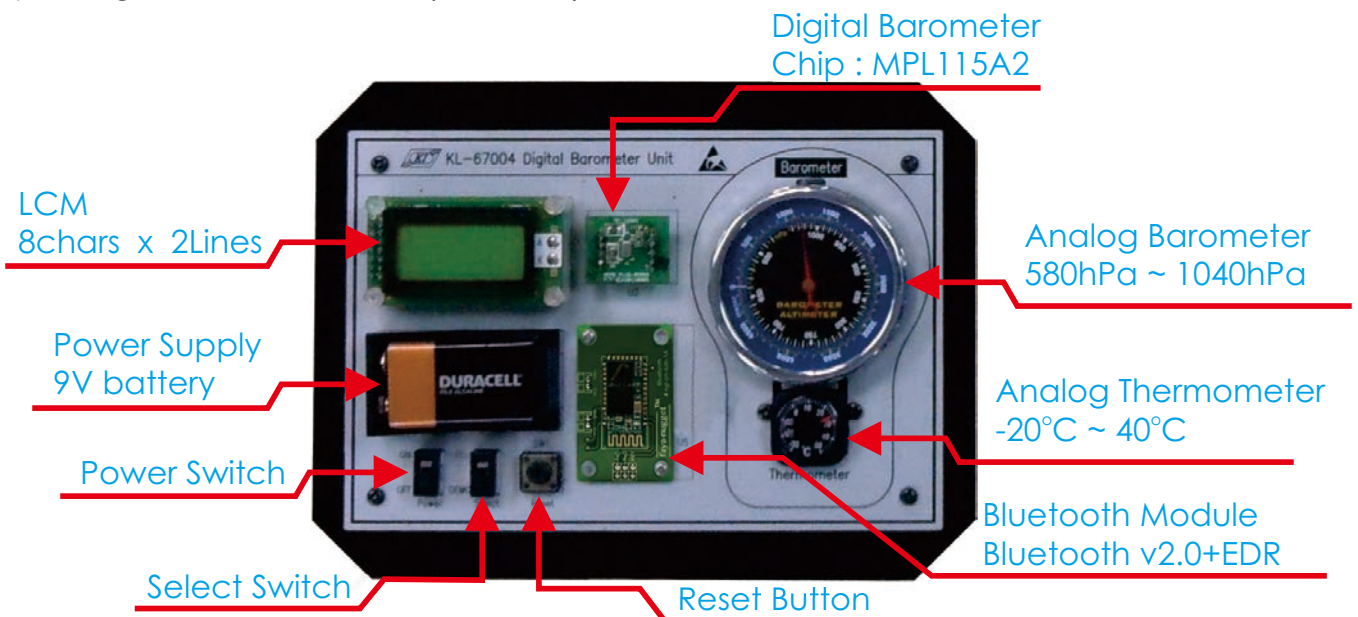
Pressure measurement

Module Structure

Example: 3-Axis Accelerometer Unit (KL-67001)



Example: Digital Barometer Unit (KL-67004)



Transfer sensor data to computer without cable connection.

