

## What is MEMS accelerometer sensor ?

**MEMS accelerometer sensor** is an electromechanical device that will measure both static (gravity) and dynamic (motion or vibration) accelerations. The development of MEMS technology has revolutionized the original accelerometer applications, making them smaller, lower power and more accurate. MEMS accelerometers today may be found not only in industrial and mobile applications, but also in safety critical aeronautical instruments, tactical defense systems.

SkyMEMS high performance MEMS accelerometers are based on bulk silicon micromachining and capacitive sensing. Our accelerometer sensors have passed the strictest tests, it enjoys excellent performance in noise, dynamic range, non-linearity, repeatability, temperature drift, shock proof, etc. this product is an ideal option for earthquake monitor, vibration monitoring, high speed train/metro train, test platform of vibration and shocking, etc.

We will continue to provide the best solution through development of the compact, low-voltage and high-performance accelerometer to our customers in the future.

### Types of MEMS accelerometer sensor

There are many types of MEMS accelerometer sensor according to different standards.

According to the axis number, the MEMS accelerometer sensor includes:

- Single axis MEMS accelerometer sensor
- 3 axis MEMS accelerometer sensor

According to the output interface, the electronic compass sensor sensor includes the following types:

- Analogue output MEMS accelerometer sensor
- RS485 output MEMS accelerometer sensor

### Applications of Electronic Compass Sensor

SkyMEMS has different types of MEMS accelerometer sensor, from low range to high range with different output interface, which has been widely used in the following fields:

- Early Earthquake Warning System
- Structural Health Monitoring

- High-speed Train
- Vibration Monitoring System
- Inertial Navigation System
- Industrial Process Control
- Drilling
- Platform Stability