

Exhibiting at the 2016 Sensor Expo

-Sensing Technologies Driving Tomorrow's Solutions-

Aichi Steel (headquartered in Tokai City, Japan) and its subsidiary Aichi Micro Intelligent will exhibit at 2016 Sensor Expo to be held from June 22 through 23 2016 at the San Jose McEnergy Convention Center. Our booth is number 534.

Aichi Steel was the first company to successfully commercialize the MI sensor (based on Magnetic Impedance effect) technology, and it has seen use as a highly sensitive electronic compass in mobile phones, digital cameras, tablets, laptop PCs and other mobile devices, selling over 100 million pieces since 2002. At the 2016 Sensor Expo, the company will display many of the technologies derived from our expertise in the Magnetic Impedance effect.

<Main Products on Display>

- 1. Magnetic field simulator "PALMGAUSS S"** is a compact magnetic field simulator that can recreate the magnetic environment experienced by mobile devices in a geomagnetic field. It consists of mutually orthogonal 3-axis electromagnetic coils that generate a magnetic field with a precision MI sensor. A desired dynamic magnetic field can be reproduced inside PALMGASS by user programming. PALMGAUSS is a must for compass evaluation.
- 2. Ferrous Foreign Object Detection Device** is a compact device that utilizes our highly sensitive magnetic sensors in a thin board to detect ferrous objects. Suggested uses are for scanning food before being served in fast food restaurants and supermarket delis.
- 3. NanoTesla Sensor** is a highly sensitive magnetic sensor that can detect weak magnetic field variations with a noise level of 1 nano tesla. This sensor consists of a one way detecting magnetic head (MI element) and an electric circuit operating the MI element. By restricting the cut-off frequency on the low frequency side to 0.1Hz, this sensor cancels static magnetic fields such as geomagnetism and responds only to moving ferrous objects. This sensor can detect a ferrous particle as small as 1/10mm.
- 4. Amorphous Wires** with their non-uniform atomic arrangement are a unique material gaining attention from numerous fields, including magnetic sensors and sports equipment. We currently produce two types of wires: Sency, a CoFeSiB amorphous wire with superior soft magnetic properties and Bolfur, a CoFeCrSiB amorphous wire with high strength and high corrosion resistance.

