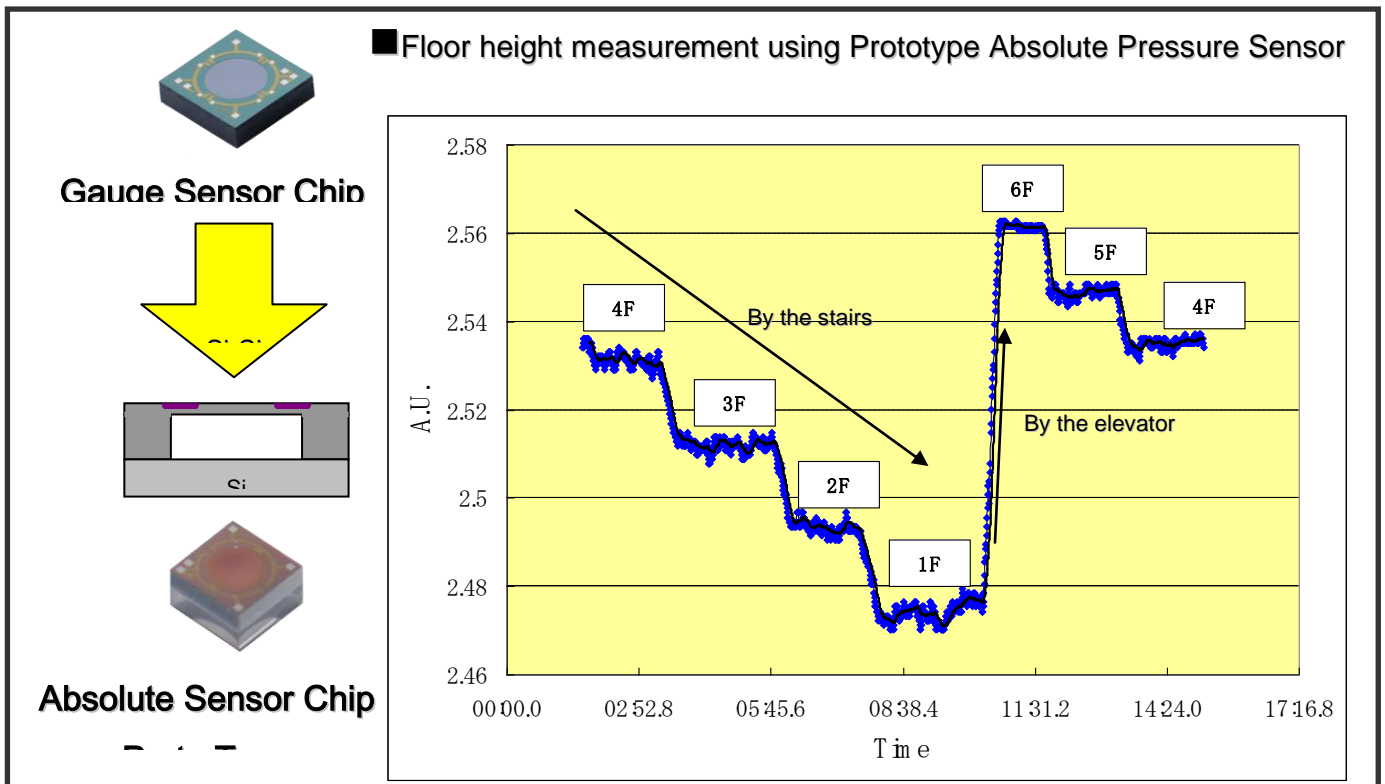


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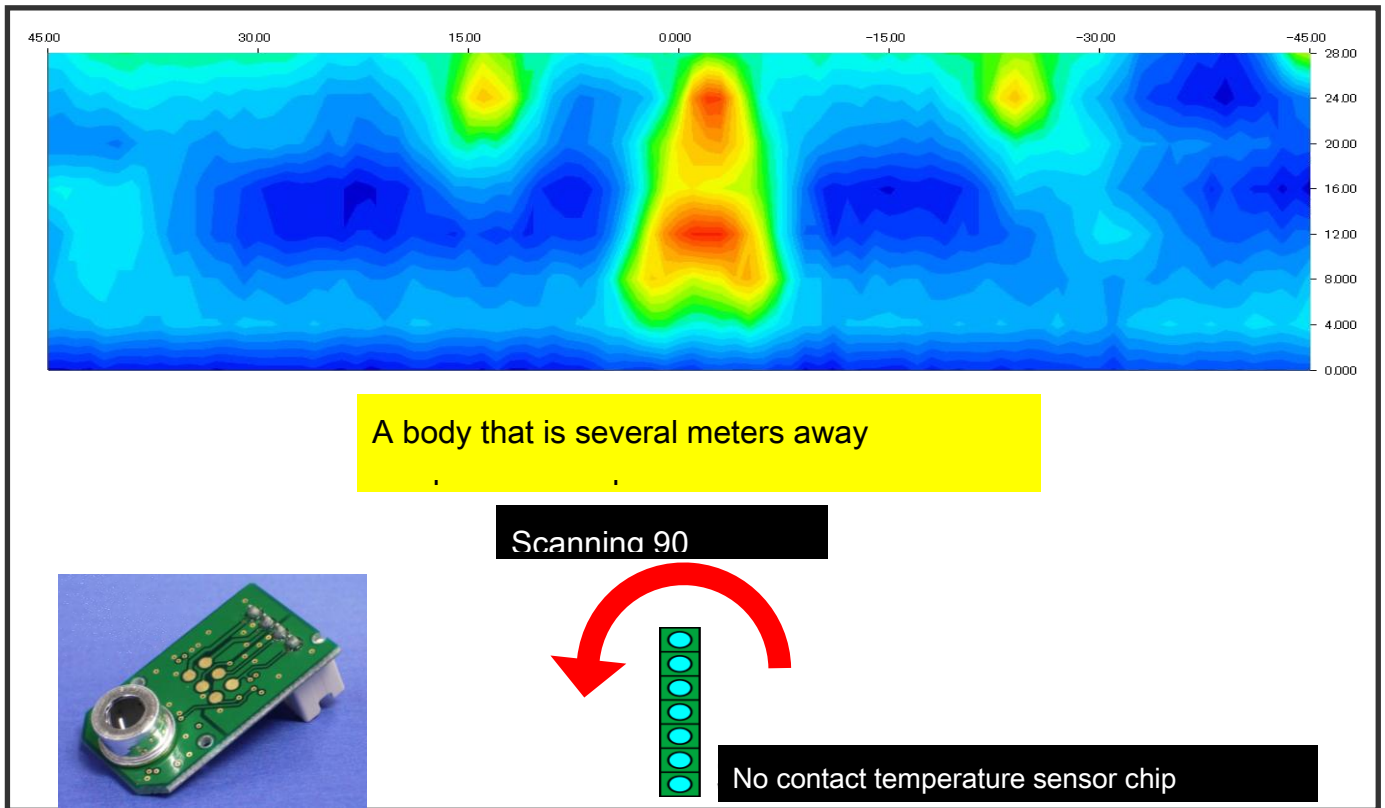
## New Omron MEMS Development Work

November 2010—Schaumburg, IL USA—Omron’s Micro Device Division (MDD) has a number of new MEMS products in development to watch for in the coming year including an Absolute Pressure Sensor, a Thermal IR Sensing Array, and a new RF MEMS Switch with Ohmic contacts for mobile devices.

Expanding on their Piezo Resistive Pressure Sensor technology, a MEMS Absolute Pressure Sensor is nearing completion. Sealed on one side from atmospheric pressure, it is able to detect changes in elevation at a resolution less than 1 vertical meter. It could, for instance, be used to determine what floor of an office building a person is on. With an operating pressure of 50 to 110 kPa, target applications for this product include enhancement of GPS Navigation, Portable Navigation Devices, Weather Forecasting Equipment, and Vertical Velocity Indication.



A new technology coming from Omron's MDD is a MEMS Thermal Array Sensor, being developed for building automation and energy savings. It consists of 8 MEMS Thermal IR sensors aligned in an array. When positioned to scan a room, it can detect occupancy (regardless of movement) and determine if additional heating or cooling is required in localized areas.



Finally, in R&D at Omron's MEMS fabrication facility in Yasu, Japan is a new RF MEMS Switch using Ohmic Contacts. This Single Pole, Double Throw relay is being developed for the mobile phone market with a DC to 3GHz signal range. More information on this product will be available in the second half of 2011.

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### **About Omron**

For 75 years, Omron Electronic Components has been a leading manufacturer and provider of advanced electronic components. Extensive product groups include relays, switches, connectors, MEMS flow sensors, pressure sensors, and optical components. Omron Electronic Components is the Americas subsidiary of Omron Corporation, a \$7.5 billion global leading supplier of electronics and control system components and services. Their broad product offering can be found in applications for the communications, transportation, medical, HVAC, appliance, industrial automation, consumer electronics, and test & measurement markets around the world. Omron Electronic Components has an extensive sales network consisting of regional sales engineers, inside sales representatives, technical sales assistants, customer service staff, and an authorized Distributor network.