

NanoSen Presents Next-Generation Force Sensing Impedance Technology at SENSOR+TEST

NanoSen GmbH, a high-tech startup specializing in advanced force sensing solutions, will showcase its impedance-based force sensing technology at SENSOR+TEST, the leading international trade fair for sensor, measuring, and testing technology.

NanoSen introduces a new class of force sensors based on **advanced polymer nanocomposite materials combined with a proprietary readout principle**. This approach enables highly stable, reliable, and repeatable force measurements, even under demanding mechanical and environmental conditions, and overcomes key limitations of conventional capacitive sensing technologies.

At SENSOR+TEST, NanoSen will present its **Force Matrix Kit** as a key highlight, alongside a range of sensor kits and application demonstrators. The Force Matrix Kit allows the measurement and visualization of force and pressure distribution across surfaces. The ultra-thin, flexible sensor matrices are designed for rapid evaluation and can be integrated into curved surfaces, compact systems, and flexible structures.

“Our impedance-based measurement principle represents a fundamental leap in force sensing,” says **Dr. Rajarajan Ramalingame, CEO of NanoSen**. “By combining PNC materials with an impedance-based electrical readout, we achieve a level of precision and long-term stability that is difficult to realize with conventional sensing approaches such as force sensing resistors and capacitive force sensors. SENSOR+TEST is the ideal platform to present this technology to the international sensing community.”

NanoSen’s solutions support a wide range of applications, including robotics, human machine interfaces, medical technologies, industrial structural monitoring, and automotive. In addition to standard kits and demonstrators, NanoSen offers custom sensor development services, supporting customers from initial concept design to functional prototypes.

Visitors to SENSOR+TEST are invited to experience live demonstrations and discuss application-specific requirements directly with NanoSen’s engineering team.

Visit NanoSen at SENSOR+TEST

Booth: Hall 1 / Booth 1-219

Date: 09–11 June 2026

About NanoSen GmbH

NanoSen GmbH develops next-generation force sensing impedance solutions using robust PNC materials and a proprietary measurement technologies. The company enables precise, stable, and flexible force sensing for demanding applications such as in industry, healthcare, robotics, and automotive.

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