



Press Release

February 22, 2023

Quick and efficient professional toolkit for ideation, prototyping and proof of concept engineering

Henkel launches novel Sensor INKxperience Kit for IOT sensor engineering with printed electronics technologies

Düsseldorf – As a global leader in material technologies Henkel has launched a novel sensor experience kit tailor-made for IOT engineering across industries. The novel [Henkel Qhesive Solutions Sensor INKxperience Kit](#) offers four different printed electronics technologies that are pre-configured with hardware and software for prototyping and engineering ideation. The kit has been designed for professional engineers and enables them to quickly and efficiently explore and experiment with the technology of printed electronics for the development of IOT sensor solutions.

Henkel is an industry-leading supplier of printed electronics materials and services. The broad Loctite portfolio of functional inks allows to print functional electronics circuits on foil, creating flexible circuitry for various applications, including IOT sensors. Together with its ecosystem of partners Henkel enables the development of printed electronics applications tailored for the specific properties demanded by industrial customers. The company's inks are suitable for a broad variety of sensor technologies including water detection sensors, self-regulating heating, pressure sensing, or printed antennas.

Henkel has developed the novel Sensor INKxperience Kit in collaboration with its partners LAIIER® and Quad Industries. To demonstrate the potentials and various functionalities of the company's inks for the development of smart product applications, the kit contains four different technologies: a Leak Detection Sensor, a Non-Contact Liquid Level Sensor, a Positive Temperature Coefficient (PTC) Heater and a Single as well as Multi Zone Force Sensitive Resistor (FSR) Sensor which are all reusable multiple times. The printed technologies are pre-configured with hardware and software for immediate and continuous data read-out and offer an easy set-up for the ideation of new ideas and proof concept during prototyping and the engineering process of next generation IOT sensors.

IOT engineers can use the kit to explore the possibilities printed electronics offers for the development of sensor solutions. The technology is already implemented across a variety of industrial end-application markets, ranging from building construction and building information management and modelling to logistics, transportation, smart home appliances and furniture. The printed sensor technology complements traditional sensor hardware opening-up new opportunities in intelligent surface sensor design. The application of printed surface sensor technologies combined with hardware and software enables a new scope of data collection for remote monitoring, offering benefits in terms of efficiency tracking and, in addition, a sustainable use of resources and improved product lifetime, for example maintaining the structural health of a building.

“Our Sensor INKxperience Kit is a response to the ongoing digital transformation which drives the implementation of IOT solution cross industries,” explained Melanie Wendrikat, Market Strategy Manager Printed Electronics at Henkel. “We see a growing demand for sensor integration into surface structures and the printed electronics technology offers a unique form factor and increased flexibility in design of these smart surfaces, retrofitted or integrated. The Sensor INKxperience Kit combines different printed sensor technologies with hardware and software and provides engineers a pre-configured, out of the box solution for ideation, technology testing and initial prototyping. Thus, it provides all components needed to directly start experiencing the sensors.”

To ensure that the Sensor INKxperience Kit meets the demands and requirements of IOT engineers across markets Henkel has conducted a variety of surveys and user tests beforehand. Among others, the kit has been tested by IOX, a development partner in the field of Internet of Things. IOX offers IoT sensors and platforms as a service or product applications that enable companies to make faster and data-driven decisions to generate more revenue.

“We are pleased to have been selected as a development partner by Henkel for the user tests of the INKxperience Kit,” said Sergey Schaal, responsible for electronics development at IOX GmbH. “The kit makes it very easy to get a feeling for how printed electronics technology works and enables fast proof of concept validating the technology for a new sensor application.”

The novel Sensor INKxperience Kit is available as of February 2023 preliminary with a focus on European markets. The kit can be ordered via Henkel’s sample shop under <https://www.inkxperiencekit.com/>.

About Henkel

With its brands, innovations and technologies, Henkel holds leading market positions worldwide in the industrial and consumer businesses. The business unit Adhesive Technologies is the global leader in the market of adhesives, sealants and functional coatings. With Consumer Brands, the company holds leading positions especially in hair care and laundry & home care in many markets and categories around the world. The company's three strongest brands are Loctite, Persil and Schwarzkopf. In fiscal 2021, Henkel reported sales of more than 20 billion euros and adjusted operating profit of around 2.7 billion euros. Henkel's preferred shares are listed in the German stock index DAX. Sustainability has a long tradition at Henkel, and the company has a clear sustainability strategy with concrete targets. Henkel was founded in 1876 and today employs a diverse team of more than 50,000 people worldwide – united by a strong corporate culture, shared values and a common purpose: "Pioneers at heart for the good of generations." More information at www.henkel.com

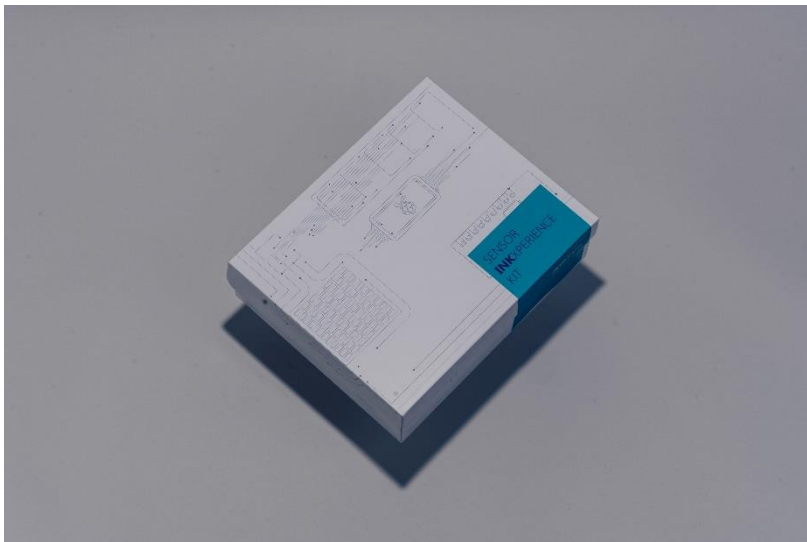
Photo material is available at www.henkel.com/press

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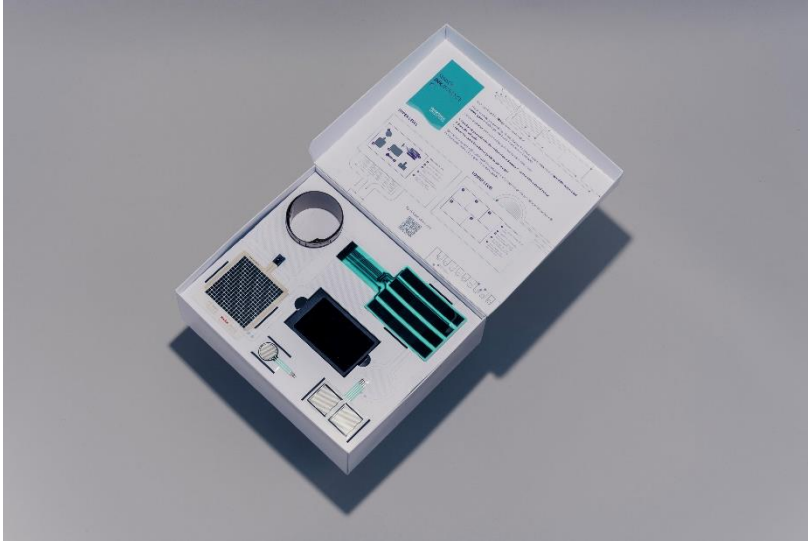
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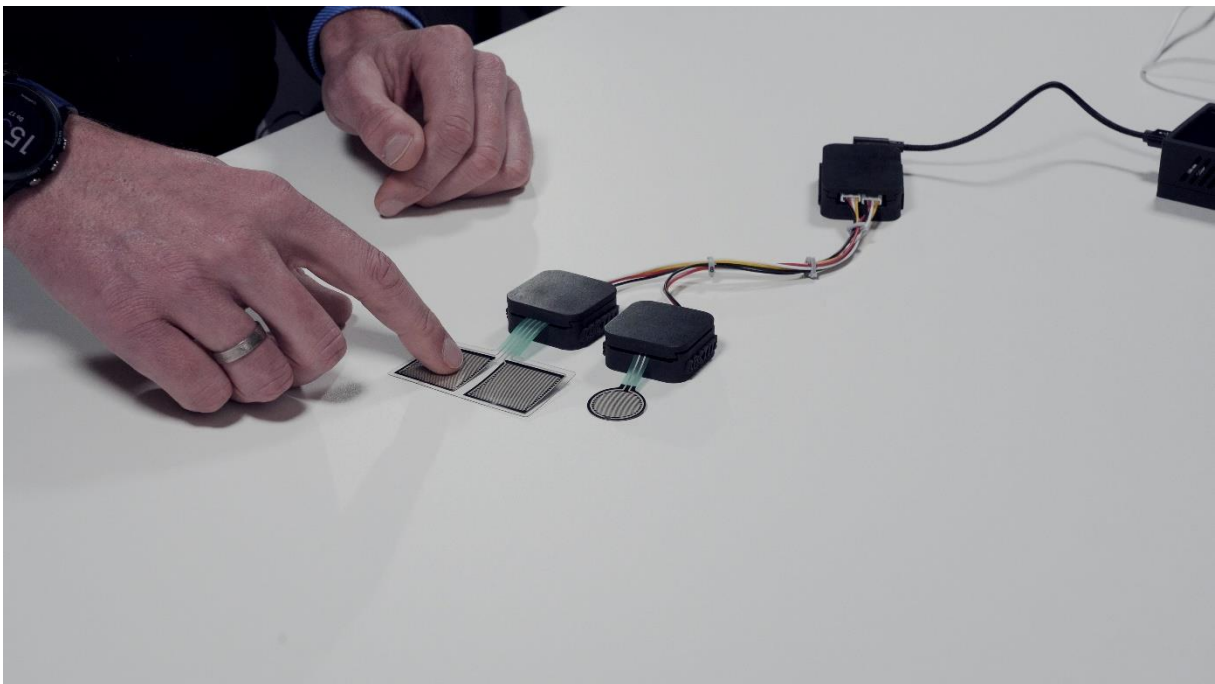
Henkel AG & Co. KGaA



Henkel has launched the novel Henkel Qhesive Solutions Sensor INKxperience Kit for the quick and efficient ideation, prototyping and engineering process for IOT sensor solutions.



The Sensor INKxperience Kit contains four different printed electronics technologies that are pre-configured with hardware and software for prototyping and engineering ideation.



The Sensor INKxperience Kit offers IOT engineers the possibility to explore the potentials of printed electronics for the development of new sensor solutions.