

RVmagnetics Unveils Industrial Demonstration Kit at JEC World 2026 – Empowering Engineers to Test Passive Microwire Sensing In-House

JEC World Paris Booth 5M144 – 10 March – RVmagnetics, a pioneer in advanced passive sensing technology, is proud to announce the launch of its **Industrial Demonstration Kit at JEC World 2026 in Paris**. This new engineering demo platform enables OEMs, tier-1 suppliers, and materials engineers to design and validate custom sensing proofs-of-concept using RVmagnetics' cutting-edge MicroWire sensor technology.

The Industrial Demonstration Kit bridges the gap between laboratory research and real-world composite and materials engineering by combining ultra-thin, passive microwave sensors with robust data acquisition hardware. Built for demanding industrial environments, the kit allows users to capture real-time measurements of pressure, temperature, vibration, and position with contactless sensing – all without compromising the integrity of the host material.

Key Highlights of the Industrial Demonstration Kit:

Contactless, Passive MicroWire Sensors: Microwire sensors thinner than a human hair deliver continuous feedback on structural health metrics even in harsh mechanical and thermal conditions.

Full Data Acquisition System: Integrated electronics provide rapid signal capture and processing, enabling engineers to monitor composite behavior in real time.

Versatile Sensing Heads & Interfaces: Includes both integrated and external sensing heads plus an optional wireless tablet interface for flexible in-place experimentation.

Custom Proof-of-Concept Development: Users can embed MicroWire sensing within 3D printed or composite samples for tailored evaluations across applications such as automotive, aerospace, robotics, and advanced manufacturing.

"Traditional sensors often struggle with integration challenges or fail under extreme conditions. Our Industrial Demonstration Kit enables engineering teams to get hands-on with next-generation sensing – exploring structural health monitoring and Smart Material feedback loops earlier in the design cycle than ever before," said Vladimir Marhefka, CSO of RVmagnetics.

The Industrial Demonstration Kit will be showcased live at JEC World 2026, one of the world's leading gatherings for the composites industry, held at Paris Nord Villepinte Exhibition Centre. RVmagnetics will participate in Composites Exchange sessions, offering technical insights directly to an audience of engineers, designers, and materials specialists.

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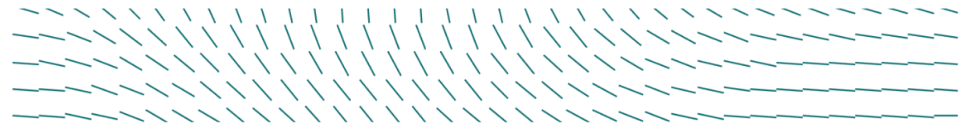
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About RVmagnetics

RVmagnetics is the R&D company specializing in passive MicroWire sensor technology for real-time, contactless measurement of physical quantities. Its innovations support Industry 4.0, composites, automotive, aerospace, and industrial Internet of Things (IIoT) applications worldwide. MicroWire sensors can be integrated without degrading material mechanical properties and are designed for performance in extreme temperatures and environments.

Contact RVmagnetics at JEC World:

Booth 5M144 - Hall 5

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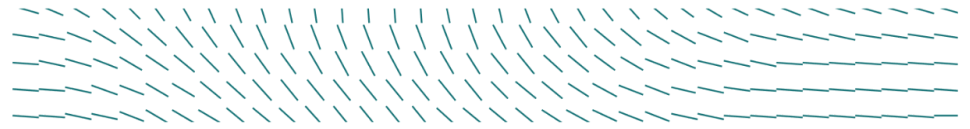
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Tata visit report

TIME OF VISIT: 21.-23.10.2024

Installing sensors

We installed microwire current (Figure 1) and temperature (Figure 2) sensors on two separate thyristors (Figure 3). Hall probe was placed close to the current sensor to provide reference data.



Figure 1 Microwire current sensor on thyristor

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