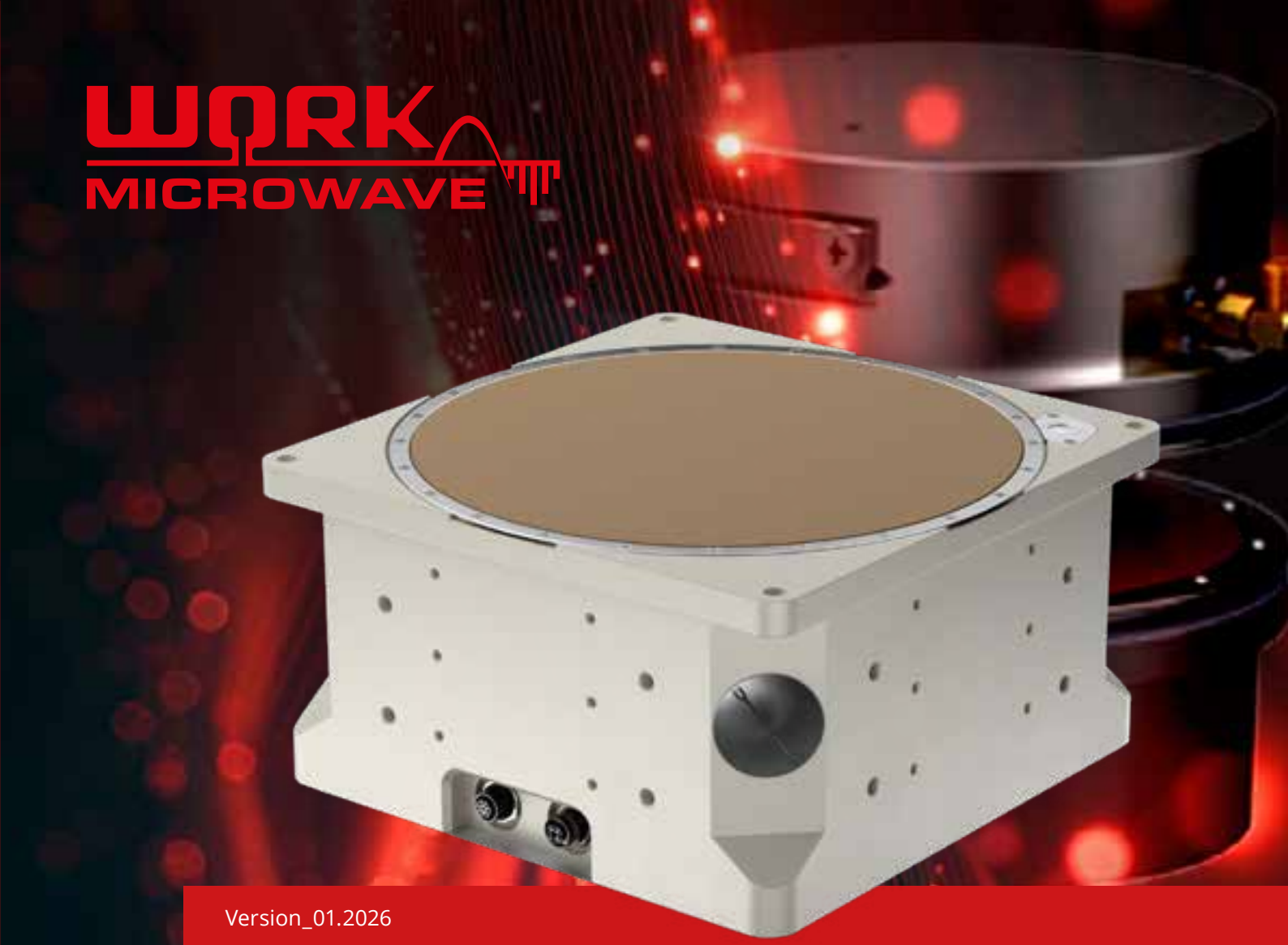
WORK MICROWAVE



Version_01.2026

SR 38 | 96 | 250 Inline Measurement Sensor

Our SR Sensor family delivers reliable, precise, contact-free inline measurement of web materials, plates, boards, bands and strips.
It continuously measures key material properties, including moisture content, composition and weight/grammage. Designed for industrial material characterization, SR Sensors help maintain stable and efficient production processes.

Factsheet

MADE IN GERMANY

work-microwave.com

Key Features

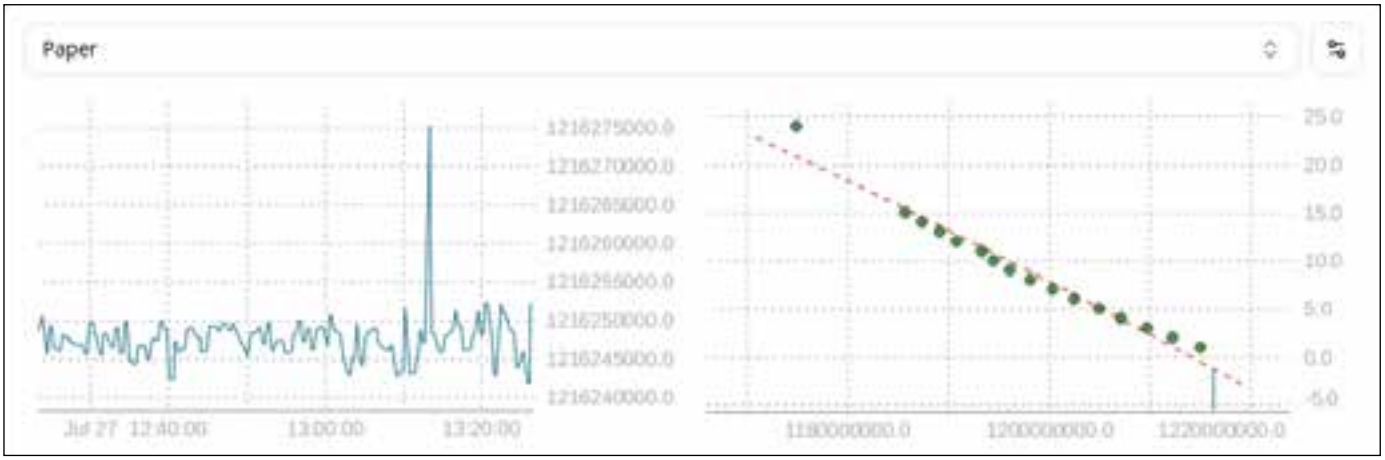
- **Sheet type independent measurement of material properties**
- **Non-contact measurement**
- **Sub-surface and in-depth material property measurements**
- **Wear- and maintenance free**
- **Nondestructive measurement**

Solutions for inline material characterization

We provide reliable, high-precision sensors for industrial material characterization. Our innovative solutions enable continuous inline measurement of moisture, material composition and weight, ensuring stable and efficient production processes.

SR Sensor family offers contact-free inline measurement for web materials, plates, boards, bands and strips across a wide range of industrial production lines.

- **Paper and corrugated boards**
- **Textiles (woven and non-woven)**
- **Insulation materials**
- **Pressboards**
- **Fiberboards**
- **Insulation boards**
- **Foils**
- **Towpregs and rovings**



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Sensor Type

The sensor is available in three standard variants: SR-38, SR-96 and SR-250, selected based on product size, type and material properties. Larger heads suit heavier products, while smaller heads offer higher sensitivity. Key differences include measuring area, sensor gap, sensitivity and measurement range.

HEAD TYPE	SR - 38	SR - 96	SR - 250
Maximum product thickness	3-8 mm	10-20 mm	10-20 mm
Measurement Range	0... 100g/m2	0... 200g/m2	0... 500g/m2
Sensitivity	Very High	High	High
Mechanical Dimension	230 x 200 x 120 mm3	230 x 200 x 120 mm3	300 x 300 x160 mm3

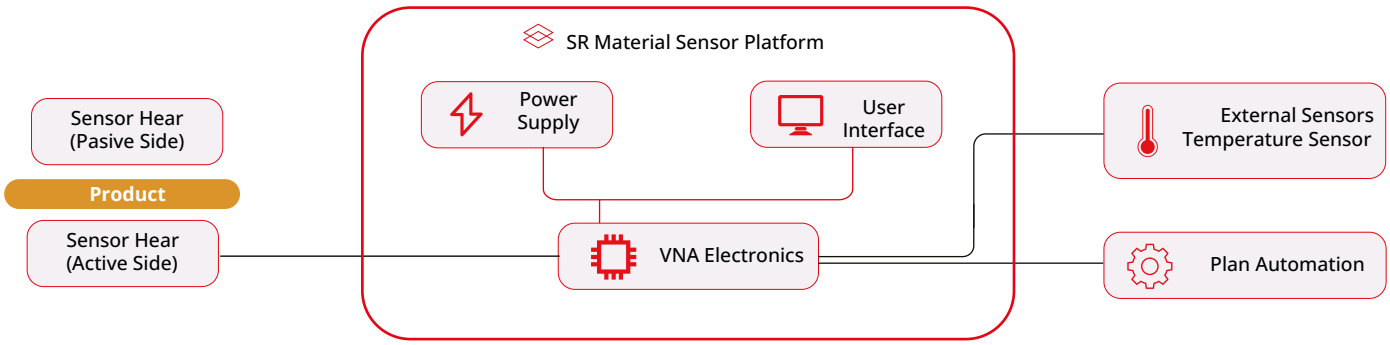
User Interface

The integrated web-based user interface enables easy monitoring and control of the sensor. Product-specific calibration curves can be created by assigning reference values to the corresponding sensor readings. Multiple calibrations can be stored directly on the device.



Description of SR evaluation platform

The split resonator design of the sensor head provides a non-contact measuring solution that allows an easy integration also in existing production lines. Depending on product type and thickness there are different resonator sizes available. Customerspecific measuring heads allow optimal adaptation of the sensor system to the properties of the product.



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