



## **ENOVASENSE HSR**

The ultimate in-line automated  
coating thickness control

# UNIQUE ADVANTAGES FOR SMART MEASUREMENTS



## NON CONTACT

The sensor head is placed at a few centimeters of the part to measure : no contact is needed.



## TURNKEY

The system adapts automatically to most automated lines by detecting the part shapes and following them while they are moving



## COST SAVER

By measuring the paint or treatment thickness in-line, it helps reach higher quality levels while saving time and material.

## ALL-IN-ONE IMPLEMENTATION

System for detecting the parts and continuously measuring the distance

Special Enovasense probe with enhanced detectivity and embedded controller



3-axes system to follow the parts and adapt to part vibrations

Continuous air blowing cleaning on the front lens

## ALL FUNCTIONS EMBEDDED

The Enovasense HSR compact module embeds all functions of the system. There is no need for an external controller, power station or water cooling.

Dimensions (axes excl.)	272 x 160 x 129mm
Weight (axes excl.)	4.3 kg
Measurement range	1-1000 $\mu$ m
Measurement precision	down to 0.1 $\mu$ m
Maximum line speed	up to 10 m/min

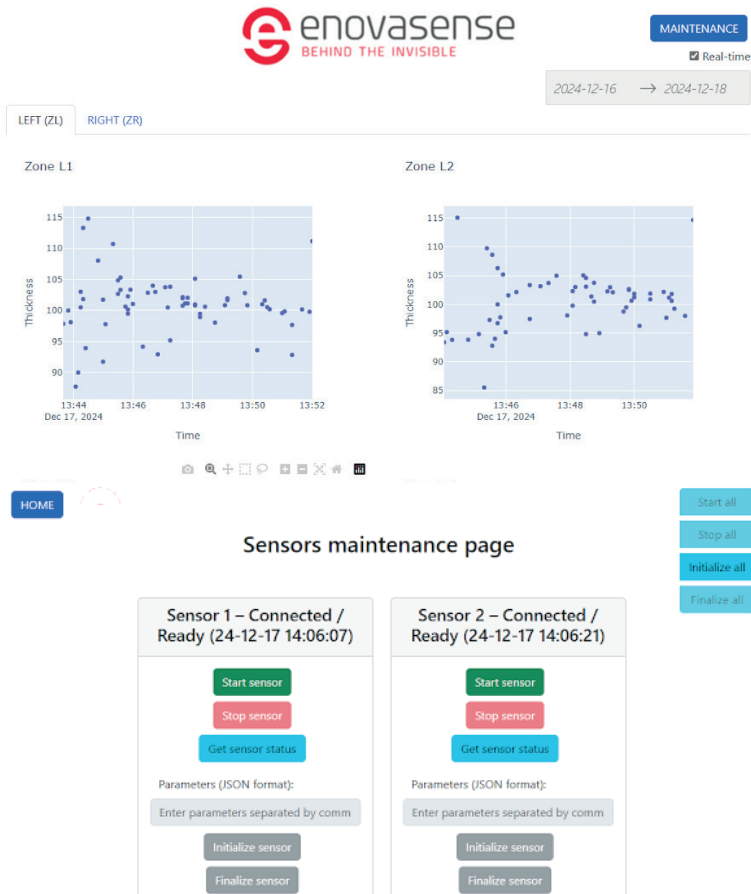
*Performances for a typical case*

Interface	Ethernet
Operating temperature	+5°C to +50°C
Measuring rate	1Hz
Supply voltage	230 V / 50-60Hz
Laser power	1 to 10W

# UNIQUE TECHNOLOGY IMPLEMENTATION

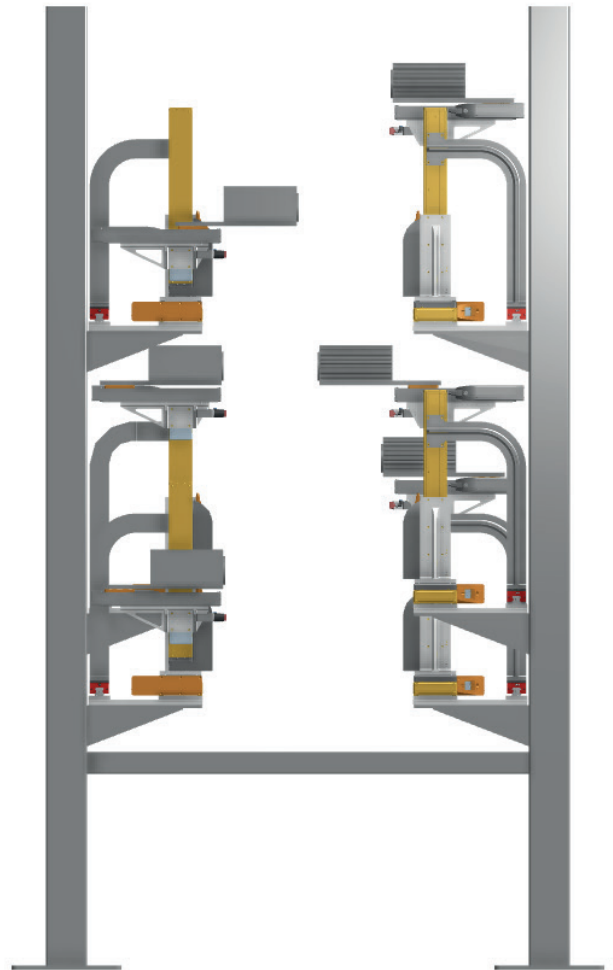
What makes the HSR unique is that it is an all-in-one system that doesn't require any additional integration costs for most of the automated lines. Install the system at the side of the line and it will detect the parts, follow them at the line speed, adapt to vibrations and swinging, measure and go to the next part, all automatically.

## LIVE SUPERVISION



## MODULAR SYSTEM

Replicable on both sides and at different heights of the line and implementable on horizontal and vertical lines. All HSR modules can be simply connected to a common supervision.



## HIGH REPETITION RATE

No off time is needed between 2 measurements. The sensor can immediately start the next measurement, ensuring a high coverage of the production.

## LARGE RANGE OF APPLICATIONS



For controlling the thickness of **powder or liquid paint**, before or after curing. Common calibration for all powder paint colors available.



For controlling the thickness of **aluminium anodized** parts. Common calibration for all aluminum alloys available.



**Polytec GmbH**

Polytec-Platz 1-7

76337 Waldbronn

Phone: +49 7243 604-1730

Fax: +49 7243 69944

[p.schullerer@polytec.de](mailto:p.schullerer@polytec.de)

[www.polytec.com](http://www.polytec.com)