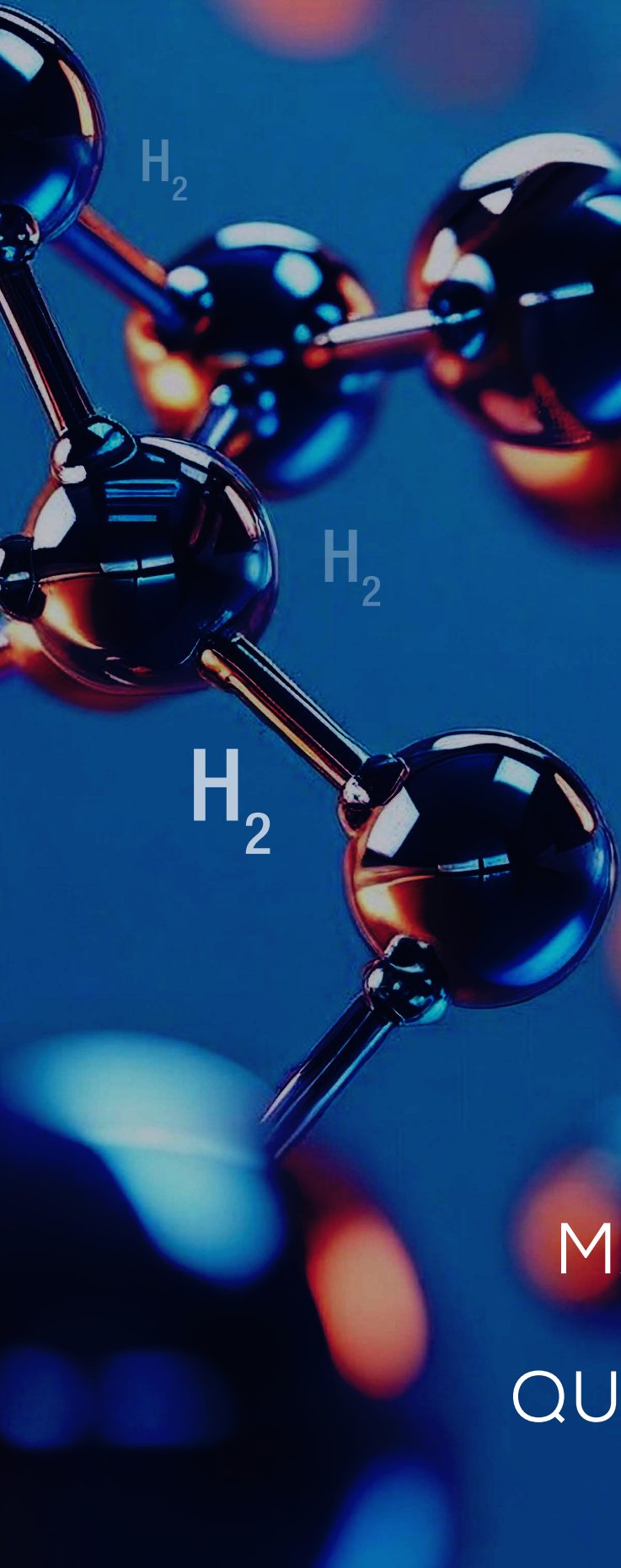




**MARPOSS**



**MESYS**

**FUEL CELLS  
MANUFACTURING  
SAFETY AND  
QUALITY CONTROL**

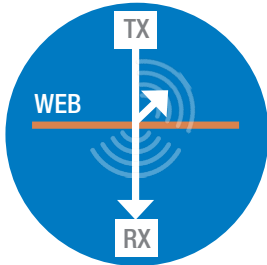
# EXCELLENCE IN ATEX PRODUCTS MANUFACTURING

## MESYS: a trusted partner in safety and precision

For over two decades, MESYS has been a leader in delivering ATEX-certified solutions.

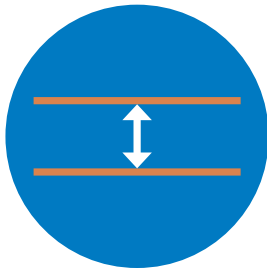
Our certified measurement frames are built to excel in hazardous environments, combining technical excellence with robust safety protocols.

Each unit undergoes rigorous testing by independent TÜV representatives, ensuring compliance with ATEX regulations.



### ULTRASONIC TECHNOLOGY

We offer a non-contact, non-invasive, non-destructive radiation-free measurement, contributing to the safety of operators and the environment. We guarantee 100% control of all your products like Catalyst-Coated Membranes and Gas Diffusion Layer since our ultrasonic technology is unaffected by chemical composition or color. All our products are ready and easy integrate into industrial processes thanks to our dedicated, flexible software compliant with OPC/UA standards



### THICKNESS MEASUREMENT

We offer a wide variety of technologies to measure your product thickness from ultrasonic sensors to chromatic confocal, laser and more. These sensors allow for precise and reliable measurements, ensuring accuracy across different materials and conditions. Whether you need to measure in challenging environments or require high-resolution data, our portfolio of solutions can meet your specific application needs



### ABSOLUTELY RADIATION-FREE

Say goodbye to Radiation! In basis weight and thickness measurements, radioactive sources are often used, but we offer a safer alternative. All our technologies are absolutely radiation-free and provide accurate measurements for all types of materials, ensuring complete safety for operators and the environment. With our clean sensor solutions, you can achieve precise results without the risks associated with radioactive methods.



### GREEN FOR GOOD

We've adopted several different clean and safe technologies to offer a greener and forward thinking solution for monitoring your processes. This way of measuring allows our manufacturers to maintain the highest standards of quality throughout the production line while prioritizing safety. With us, you do not only enhance the quality of your products, but you also make a positive impact on the environment.



### ATEX CERTIFICATION

Each unit undergoes rigorous testing conducted by independent TÜV representatives to ensure full compliance with ATEX regulations. This certification process extends to every single internal component of the system, from the smallest cable to every intricate part that contributes to the overall functionality and safety of the machine.



**MARPOSS**

# SHAPE THE FUTURE OF ELECTROMOBILITY WITH FUEL CELLS

Fuel cell technology is rapidly redefining the world of electromobility promising high efficiency, reduced emissions, and extended range.

## FLAMMABLE SOLVENTS

Fuel cell manufacturing comes with critical challenges particularly the handling of highly flammable solvents essential to their production.

Among these, Isopropanol, a key solvent, presents a significant risk with its flame point of just 12°C. This means that this chemical can form flammable vapor-air mixtures at or above this temperature. Therefore, it poses a fire hazard when exposed to ignition sources such as open flames, sparks, or hot surfaces.

## ATEX-CERTIFIED SYSTEMS: A GUARANTEE OF SAFETY AND QUALITY

The safe management of hazardous substances is a non-negotiable priority for manufacturers, especially when quality control and precision measurement are essential to improving product quality.



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**ATEX (Atmosphères Explosibles) certification ensures that our equipment meets the highest safety standards, eliminating the risk of ignition in volatile environments.**

**In applications like basis-weight measurement for wet coatings, where volatile chemicals are a key component, our ATEX-certified systems enhance your product quality and ensure safety at every step of the manufacturing process.**



## (1) Certificate of Conformity TRANSLATION

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – **Directive 2014/34/EU**





# MESYS | VERSATILE SOLUTION

## UNISENSE



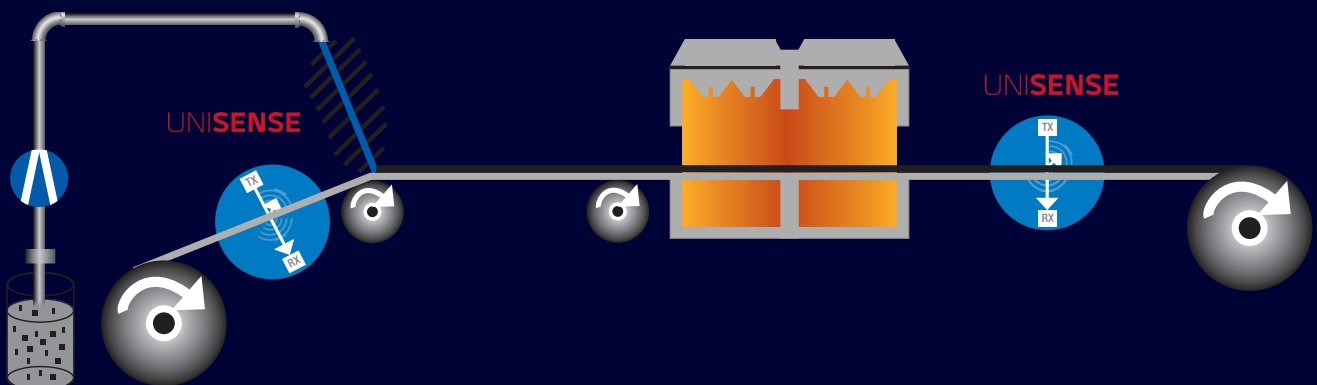
This horizontal scanning sensor, available in C-shape or O-shape designs, offers a simple yet accurate solution for measuring the basis weight or thickness of foils in both wet and dry conditions. The O-shape design is versatile and ideal for a wide range of web measurement applications, while the C-shape design is perfect for narrower applications, ensuring precise measurements in any scenario.

## UNISENSEGO



Portable version featuring a single sensor, suitable for any environment. Unisense-GO is a versatile solution designed for integration into your production lines or laboratory settings. This sensor offers immediate usability thanks to its lightweight body. It can be easily detached and taken wherever you need it, giving you a way to keep track of your production providing a convenient and versatile measurement experience without compromising on performance.

## DECAL COATING & DRYING

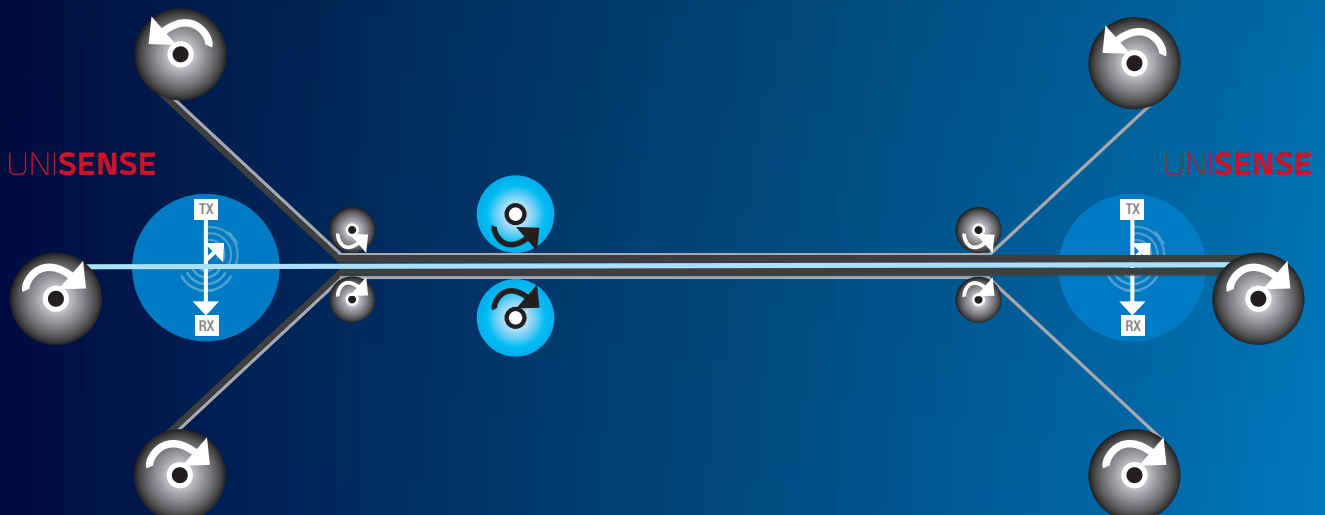


# NS TO SUIT YOUR NEEDS



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## HOT PRESSING & DECAL REMOVAL



# MEASUREMENT, INSPECTION AND TEST FOR QUALITY AND PROCESS CONTROL



worldwide present in

**34**  
countries

offices worldwide

**80**

exports

**94%**

approx.

**3,500**  
employees

**1,240**

Italy

**1,110**

Asia

**810**

Rest of  
Europe

**340**

Americas

**30**

key acquisitions since 2000

**8%**

resources invested in R&D

MESYS GmbH, manufacturer of radiation-free, non-radiometric system solutions for web measurement of basis weight, thickness and moisture, is part of Marposs Group.

Marposs was founded in 1952 and since then has provided shop-floor solutions for the quality control in the production environment. Marposs' solutions include gauging equipment of mechanical components, before, during, and after the production process, monitoring solutions on machine tools, assembly, and testing systems, automatic machines, and checking stations for production lines.

Marposs is one of the main suppliers of the top automotive manufacturers, but operates as well in the aerospace, biomedical, hi-tech, glass and converting industries.

Marposs Group's employees are more than 3500, located around the world, with presence in 34 countries with more than 80 sales offices.




**MARPOSS**

**For a full list of address locations, please consult the Marposs official website or [mesys.de](http://mesys.de)  
Specific requests for information about MESYS can be addressed to: [office@mesys.de](mailto:office@mesys.de)**

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