

UWT – Guaranteeing Quality, Durability, and Precision in the Synthetics Industry

The synthetics industry operates in a dynamic balance between innovation and challenges. Synthetics are indispensable in our daily lives – whether in packaging, high-tech applications, or industrial processes. At the same time, the industry faces growing pressure to act more sustainably and efficiently. This is where UWT comes in: with its expertise in level measurement, UWT provides reliable and innovative solutions that optimise processes and sustainably support production workflows.



Challenges and Solutions – Precise Measurement Technology for the Synthetics Industry

In the production and processing of synthetics, the requirements for measurement technology are as varied as the materials and applications themselves. Accurate level measurement is essential to minimise production downtime, avoid material losses, and ensure consistent product quality. UWT's modern sensors offer a wide range of solutions specifically tailored to the challenges of the industry.

Tailored Solutions – Reliability That Pays Off

UWT sensors deliver precise measurement results even under demanding environmental conditions. Whether synthetic granules, powders, or flakes – UWT's measurement technology minimises downtime and ensures consistent product quality.

At UWT, we understand the complexities of handling synthetics and the importance of reliable and precise level measurement solutions. With decades of expertise and a proven track record of solving applications worldwide, we are confident that we have the right solutions for your needs.

Flexibility and Ease of Use

- **Plug & Play:** Thanks to intuitive installation and straightforward commissioning, the sensors are ready for immediate use.
- **Quick Parameter Configuration:** With IO-Link, the sensors can be easily adapted to changing materials and processes.
- **Wide Range of Process Connections:** Various connection options simplify integration into existing systems.

Advanced Safety and Visualisation Solutions

- **Safety Features:** Technologies such as interference signal suppression ensure reliable measurement results, even in complex environments.
- **Level Visualisation:** UWT solutions provide real-time data, enabling precise monitoring and control of your processes.

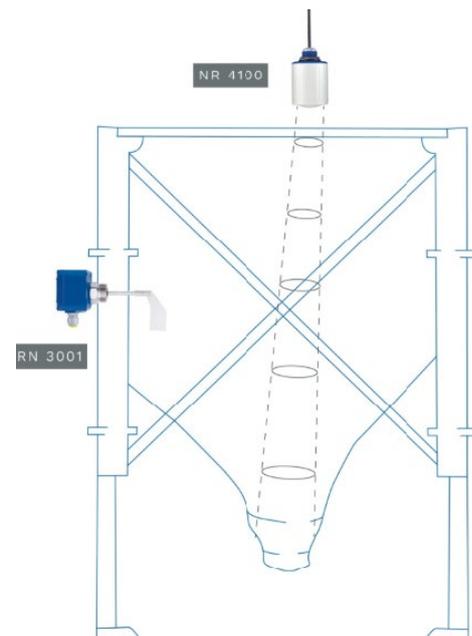
Robustness and Durability

- **Robust Design:** The sensors are specifically designed for harsh industrial environments, withstanding temperature fluctuations, humidity, and aggressive or abrasive media.
- **Lightweight Construction:** A compact design enables use in confined or weight-sensitive applications.
- **Active Shield Technology:** This feature prevents material build-up on the sensor unit, ensuring precise measurement results even with challenging materials.

Specific Solutions for Demanding Applications

- **Short Measuring Distances:** The sensors are ideal for smaller containers and short measuring ranges.
- **Measurement Through Container Walls:** Contactless sensors enable measurements even through container walls or lids.
- **Fast Response Time and Adjustable Sensitivity:** Perfect for dynamic processes and rapid material changes.

Discover in our new brochure how UWT enhances quality and precision in the synthetics industry: www.uwtgroup.com/en/synthetics



Textile silo with radar sensor for level detection, rotary paddle detector sewn into fabric for demand monitoring

Success Stories from the Field

UWT's expertise is reflected in successful projects worldwide. For example, a solution was developed for a synthetics processor to monitor the fill levels of silo batteries across multiple locations in real time. The sensors needed to operate with precision and reliability despite varying properties of the synthetic granules, such as dielectric constant (DK), dust generation, and temperature fluctuations.

The combination of the NivoTec® 3500 for level monitoring, the NivoBob® 3100 electromechanical system for level measurement, and the Rotonivo® RN 3002 full detector enabled efficient production planning, reduced material losses, and improved operational safety. This tailored solution demonstrates how UWT technologies contribute to meeting even the most demanding requirements in the industry.



On the UWT website, you will find a range of application reports addressing the challenges of level measurement in the synthetics industry, offering valuable insights and practical solutions to support your success:

<https://www.uwtgroup.com/en/blog/category/synthetics>

Your Advantage with UWT

UWT offers a comprehensive package with its sensor solutions:

- **Precise measurements** for granules, liquids, and powders
- **Quick and easy integration** – even into existing systems
- **Maintenance-free designs** for maximum reliability
- **Sustainable production support** through reduced downtime and material losses

UWT is your trusted partner, offering innovative technology, customised solutions, and decades of experience. Let's optimise your processes together and take them to the next level.

With UWT, your processes will reach the next level. LEVEL. UP TO THE MAX.

About UWT:

UWT. LEVEL. UP TO THE MAX.

As an expert in level measurement technology, UWT is the reliable, global solution provider for the simple, safe and accurate detection of levels and limit levels across a wide variety of industries and applications since 1977. Whether its bulk goods, liquids, pastes or foams - with product lines such as Rotonivo[®], Vibranivo[®] or NivoBob[®], UWT is synonymous with the faultless measurement technology solution for almost any application. UWT offers with its standard products and special options the perfect measurement provision for every application and places collaboration on an equal footing.

With production sites in Betzigau and in Malta, as well as further locations in the USA, Great Britain, Spain, China, India, Brazil and Mexico, more than a million applications have now been put into practice. Thus, UWT stands for level measurement at the highest level worldwide. As “The Level Company”, the UWT Group provides level measurement at the highest level, building on three strong pillars: Technology, Performance and Partnership.