



MOBA LEVEL SENSOR

MOBA[®]
MOBILE AUTOMATION

For more than **25 years** the technologies of MOBA Mobile Automation have been influential in the waste disposal industry and are today decisively driving the **Smart City** future concept worldwide.



LEVEL SENSOR

FLEET MANAGEMENT OF TOMORROW'S SMART CITIES

The **MOBA level sensor (FLS)** complements the integrated MOBA solution for efficient and resource-saving fleet management in waste management. Any container with any content can be equipped with the mobile ultrasonic sensor in the shortest period of time. Thanks to real-time data transmission, all information on fill level and container status is immediately available in the office, where it is stored and processed with the **MAWIS U2** software.

Desired notifications to the office can be 100% self-programmed! In this way you can decide yourself what you are informed about and when. Know immediately when the maximum filling level has been reached, whether the container has been moved or whether a fire has broken out in the container. This gives you remote control to manage your containers and empty and maintain them as needed. Plan and optimise your emptying, maintenance and control tours accordingly with **MAWIS U2** and thereby save time and resources!

Growing environmental awareness is becoming increasingly important in waste disposal. It won't be long before a conservative use of resources will be taken for granted. With comprehensive fitting of containers with the **MOBA level sensor** you can start your journey into the Smart City of tomorrow and save costs today. Fewer emptying and control trips means less fuel consumption and allows you to focus on the utilisation of your existing capacities. Containers are used to full capacity and vehicles and drivers are used efficiently.

„INTELLIGENT **TECHNOLOGIES** ARE
THE KEY TO SMART CITIES OF THE FUTURE“



MOBA FLS SENSOR

With special attention to the harsh conditions in which it is used, the sensor was specially developed for durability: shock-resistant and waterproof, with special protection against chemicals and absolutely maintenance-free. Whether during emptying, during cleaning or when stationary, its robustness is convincing throughout everyday disposal. Thanks to optimised energy consumption, a battery change is only necessary every five years.

KEY TECHNICAL DATA

- » Self-replaceable battery with 5-year service life
- » GPRS communication via on-chip SIM
- » Measuring range of 15 – 300 cm
- » Cloud integration



EASY INSTALLATION

100% MAINTENANCE-FREE

ROBUST DESIGN

CUSTOMISABLE

HIGH-CAPACITY BATTERIES

ULTRASOUND TECHNOLOGY

These days, cloud connectivity is a must for the future-oriented, environmentally conscious Smart City. Comprehensive networking of all containers offers new optimisation potential for container management and efficient fleet management.

Measurement data and sensor information are regularly transmitted to the cloud and from there can be called up at any time via the web-based **MAWIS U2** software. Thanks to this modern, globally expanded cloud infrastructure, you have access to your disposal information anywhere, whether from the office, on the road via the **MAWIS app** or via the MOBA on-board computer in every vehicle.

Security is our top priority:

Our servers are located in Europe and data transmission is encrypted on request.

The **level sensor** has been developed for particularly flexible use and is therefore compatible with all types of containers thanks to its optimised mounting method.

FEATURES

- » Ultrasonic level detection
- » Real-time data transmission
- » Data management and storage with compatible MAWIS U2 software
- » Information basis for route planning and optimisation
- » Maintenance-free component
- » Simple installation and operation
- » Fire alarm in case of fire in container

ADVANTAGES

- » Saving of disposal costs
- » Optimal utilisation of capacities
- » Optimisation of emptying tours by up to 30%
- » Reduction in the number of containers
- » Up-to-date information in real time



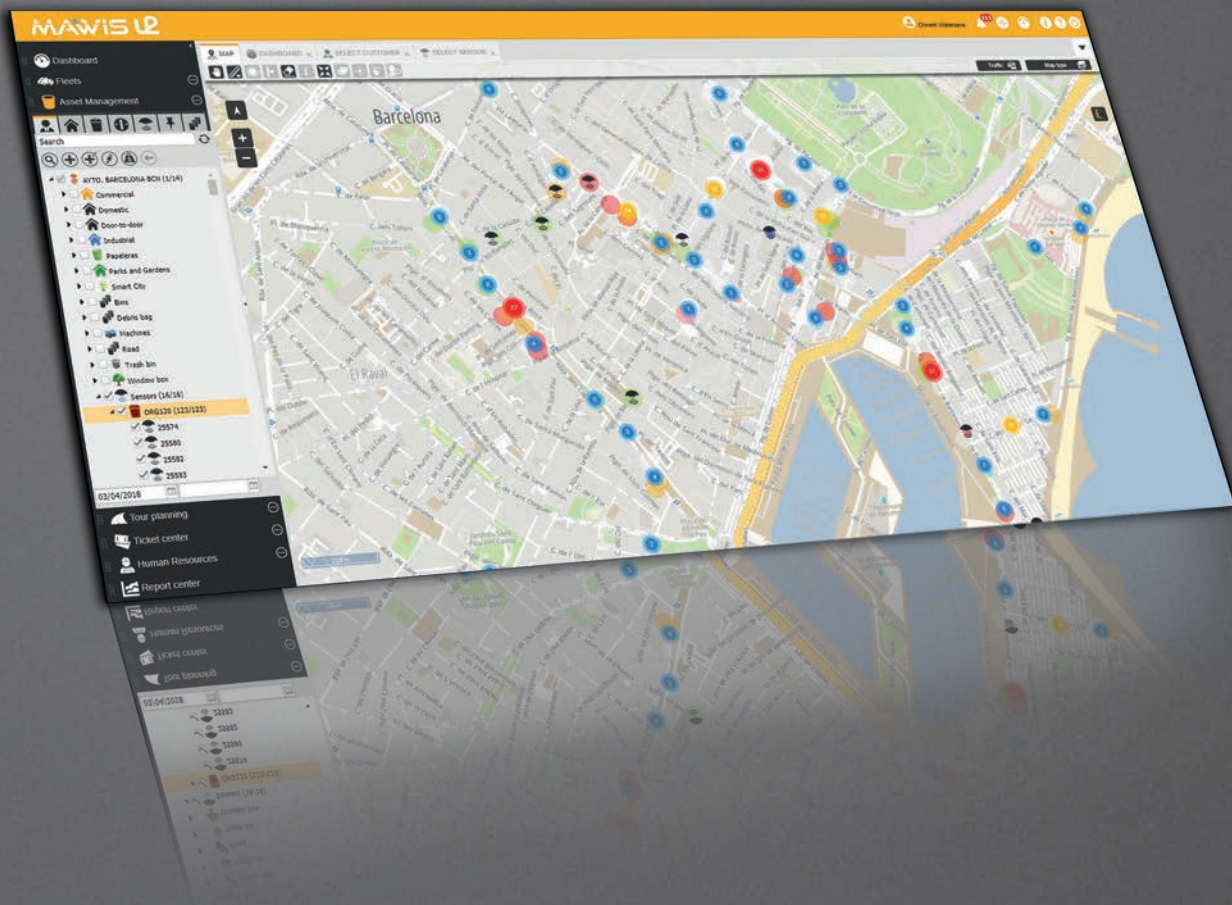
MOBA CLOUD





MAWIS U2

COMPLETE INTEGRATION



DID YOU KNOW?

MOBA's telematics, RFID and weighing technologies combine a perfectly coordinated solution for comprehensive, future-proof waste disposal management. Combined with the **MAWIS U2** software, this ensures transparent, usage-based invoicing and particularly service-oriented order processing.

MAWIS U2

ONE EYE THROUGHOUT THE CITY YOUR PORTAL TO MORE TRANSPARENCY



MAWIS U2 provides a wide variety of tools for planning and optimising waste disposal tours: whether route optimisation, container management, dashboards for fleet performance or general reporting tools.

The web-based software platform **MAWIS U2** leaves nothing to be desired in waste management. Perfectly coordinated modules, which are available in the MAWIS software, promise particularly user-friendly waste disposal management. Specially developed features such as fleet management, container management, route planning and optimisation, vehicle tracking, event management and various reporting tools are included in the standard repertoire of the integrated solution.

With **MAWIS U2** as a complete package, you not only benefit from a future-proof web application with a mobile app, but also from advanced sensors, mobile weighing systems, high-end on-board computers as well as RFID and GPS facilities connected via the cloud. All information regarding the disposal process is managed and controlled centrally in this way.



Combined with **MOBA's weighing, RFID and telematics technology**, the level sensor complements the user-friendly administration of the entire disposal process. The level sensors send the current level of their containers to the control centre, where the next disposal route is planned. After selecting all containers to be emptied, **MAWIS U2** automatically plans the most time- and distance-efficient route. Thanks to the follow-me function, the driver is navigated to the selected containers via the fastest route in the waste disposal vehicle's on-board computer. Once there, each container is identified in real time via RFID during the emptying process and weighed with the dynamic weighing system. This information for greater transparency offers the waste management company the advantage of fair, usage-based, service-oriented invoicing. Freely scalable reporting tools are later used to identify important KPIs and to further optimise container and fleet management.

As the focus of continuous platform development is on unlimited flexibility, the software is absolutely adaptable for every type of waste disposal, whether municipal, commercial, industrial or completely individual.



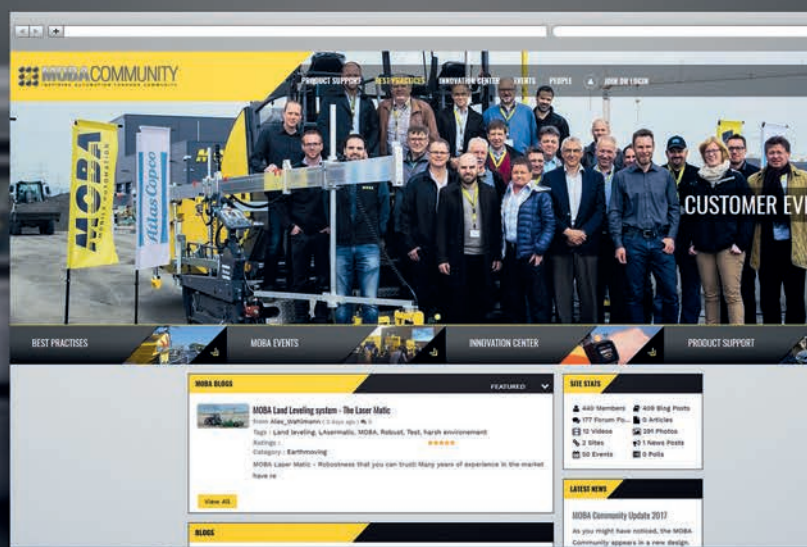
THE EXPERT NETWORK - INSPIRING MOBILE AUTOMATION

Would you like to know how the system has already been successfully deployed by our customers? In the online expert blog, **MOBA Community**, you will find everything from job stories, feature releases, discussion forums to field reports to inform you in detail about our technologies.

Besides blog contributions regarding automation solutions of MOBA Mobile Automation AG, the Community offers numerous forums, discussions, event announcements or expert contributions about various topics of automation of construction machines. The **MOBA Community** acts as an interactive, international exchange platform for everybody who would like to participate actively in the development of this industry.

Contribute your own know-how and perspectives to interesting dialogues, post important questions regarding the (r) evolution of the industry and exchange opinions and experiences with other experts.

JOIN THE EXPERT NETWORK -
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ONE GROUP - ONE RESPONSIBILITY



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MOBA GROUP

The **MOBA GROUP** is a leading global player in the world of mobile automation. Close collaborations between the headquarter in Limburg an der Lahn and subsidiaries all over Europe, Asia, North and South America create new perspectives for recent and future developments..

Superior technical know-how and more than 40 years of experience combined with an international dealer network guarantee a premium support – **worldwide. INSPIRING MOBILE AUTOMATION** - this is what the **MOBA GROUP** stands for since more than **40 years**.

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