



FILLING LEVEL SENSOR

SMART CITY FLEET MANAGEMENT

Monitoring the degree of filling of any type of waste container and litter bins.

CHALLENGES IN FLEET MANAGEMENT

Efficient fleet management is crucial for optimizing waste collection operations, yet it comes with challenges. Inefficient route planning can lead to higher fuel costs and extended schedules. Addressing these issues is key to achieving cost-effective and sustainable waste management.



ROUTE OPTIMIZATION

Inefficient planning of waste collection routes leads to higher fuel consumption, increased costs, and extended operating hours.



REAL-TIME MONITORING

Lack of accurate, real-time data on container fill levels and vehicle locations hampers decision-making and timely adjustments.



VEHICLE MAINTENANCE

Ensuring regular maintenance and minimizing downtime is challenging due to the demanding operational schedules of waste collection vehicles.





FLS

FLEET MANAGEMENT OF TOMORROW'S SMART CITIES

The MOBA FLS sensor complements the integrated MOBA solution for efficient and resource-saving fleet management in waste management. 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.



Quick Installation:

Equip any container with the sensor in minutes.



Real-Time Data:

Access fill levels and status instantly via MAWIS U2.



Custom Alerts:

Program notifications for maximum control and oversight.



Optimized Emptying:

More control means less fuel consumption.

THE FEATURES OF THE 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.

- 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

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.

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



"Since integrating the MOBA level sensor and MAWIS U2, our waste collection has become significantly more efficient. Lower costs, higher productivity, and a more sustainable operation."

"MOBA's sensors give us real-time fill levels and custom alerts for movement or fire risks. We now have full control over our container fleet with enhanced safety and efficiency."

"Equipping our containers with MOBA sensors has reduced empty runs and maximized resource use—paving the way for a more efficient and sustainable city."



YOUR PORTAL TO MORE TRANSPARENCY

MAWIS U2

ONE EYE THROUGHOUT THE CITY



MAWIS U2

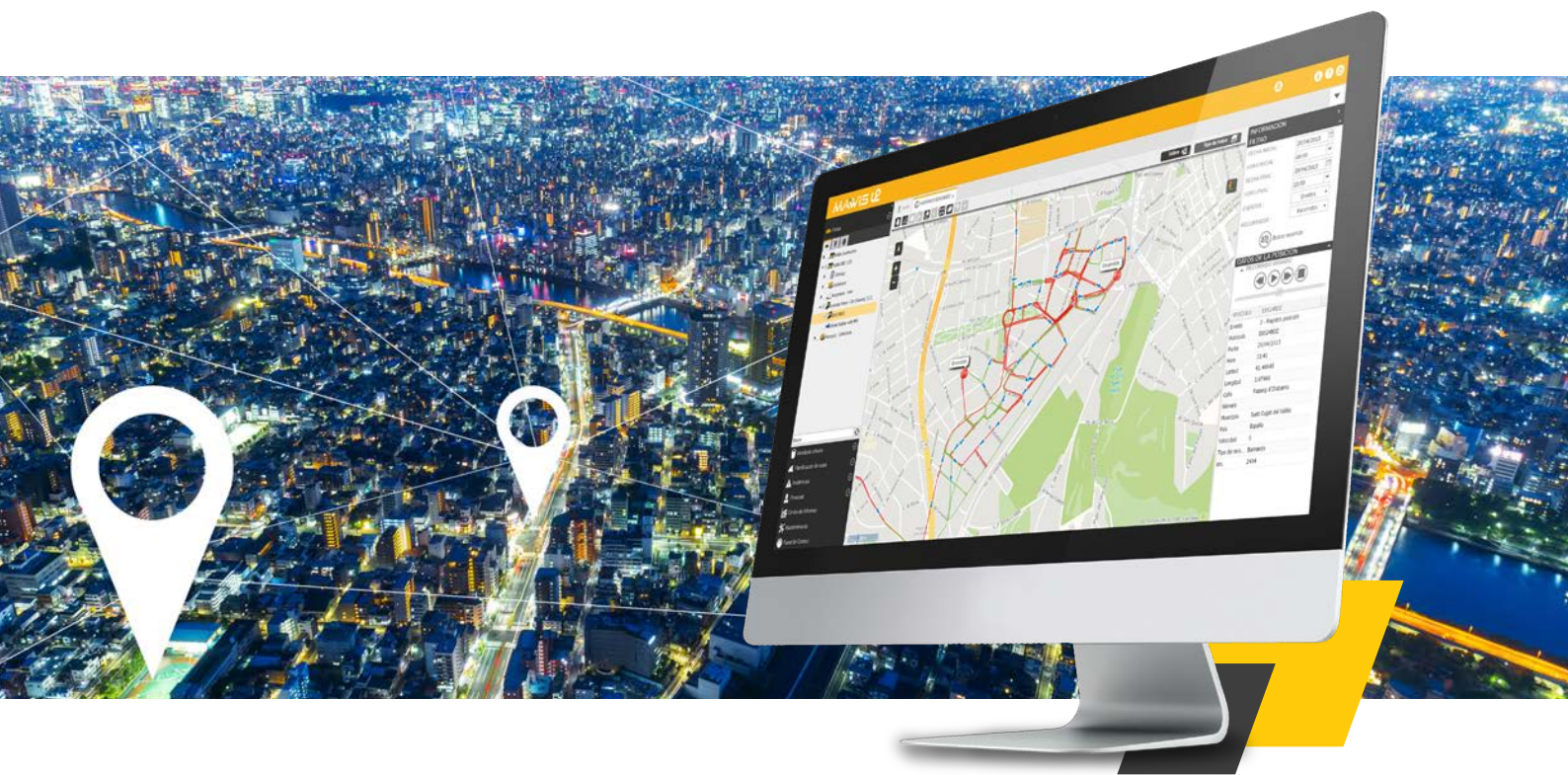
MOBA's telematics, RFID and weighing technologies combine a perfectly coordinated solution for comprehensive, future-proof waste disposal management. Combined with the **MAWIS U2** software, this ensures transparent, usage-based invoicing and particularly service-oriented order processing.

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.

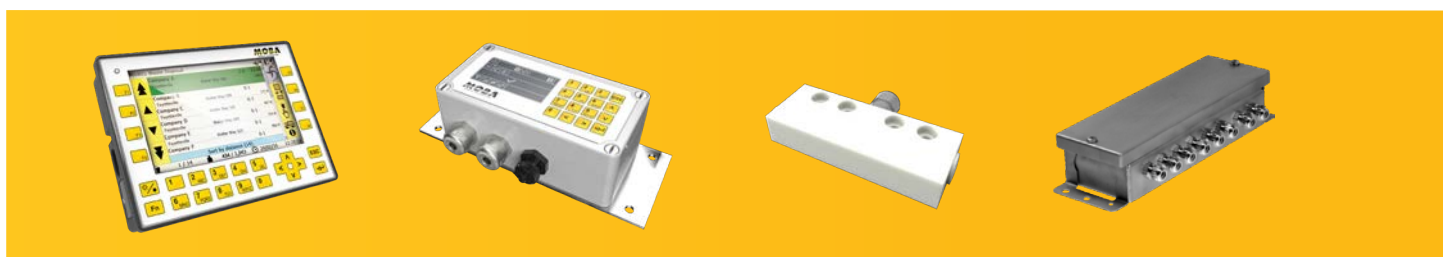
With **MAWIS U2** as a complete package, you not only benefit from a future-proof web application with a mobile app, but also from advanced sensors, mobile weighing systems, high-end on-board computers as well as RFID and GPS facilities connected via the cloud. All information regarding the disposal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

MOBA's weighing, RFID, and telematics technology seamlessly integrate with level sensors for efficient waste management. The sensors transmit real-time fill levels to the control center, enabling optimized route planning via **MAWIS U2**.



The follow-me function navigates drivers directly to selected containers, which are identified via RFID and dynamically weighed during emptying. This ensures transparent, usage-based billing and service optimization. Scalable reporting tools provide key KPIs for continuous fleet and container management improvement.

With a focus on flexibility, the software adapts to any waste disposal model – municipal, commercial, industrial, or custom solutions.

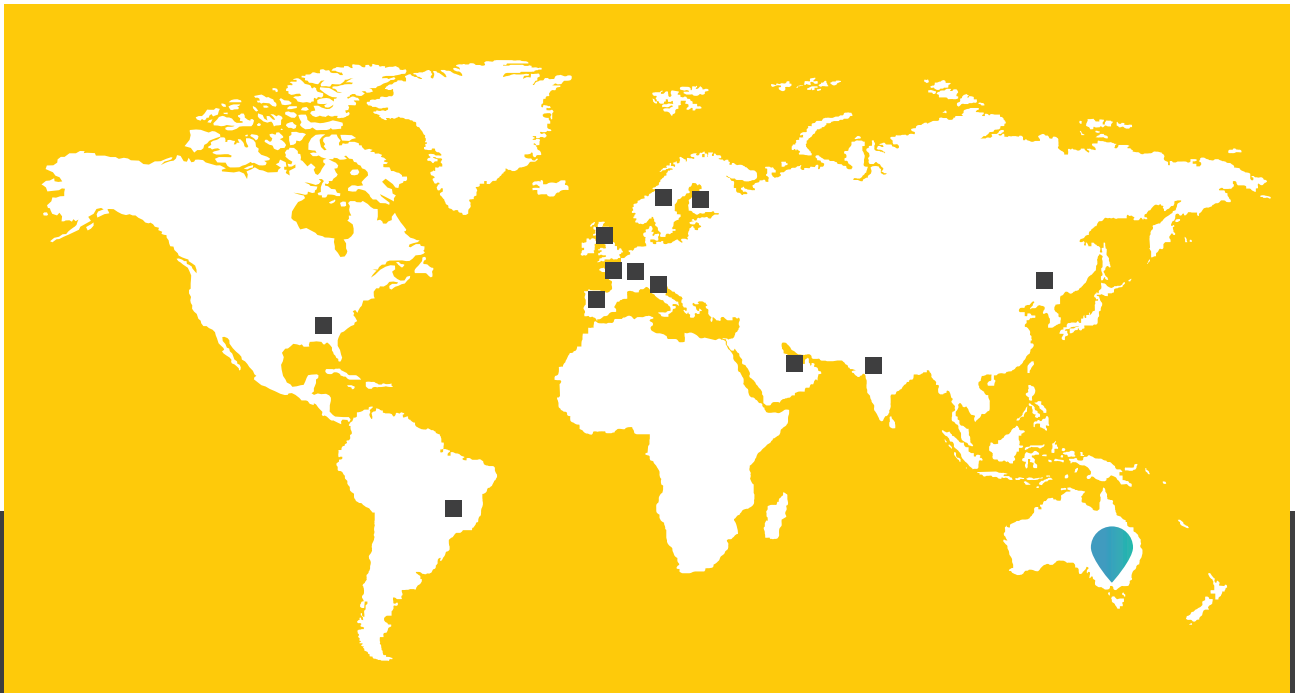


MOBA products support the waste management

MOBA GROUP

The MOBA Group has been an established name in mobile automation for more than 50 years. Our know-how and many years of experience in automation technology distinguish us as globally recognized experts. We develop and produce innovative machine control systems, identification and mobile weighing technologies as well as flexible software solutions. But MOBA components and systems are also used in other areas where robust and reliable sensors, controllers and operating units are required.

First Choice In Mobile Automation - that's what MOBA has stood for for more than 50 years!



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