

SAWIS

Transforming Weighment Operations Logistics with Smart Automation



www.smartweighment.com



In the industrial and logistics sectors, efficient and accurate weighing processes are crucial for operational success. Traditional weighing systems often involve manual interventions, leading to delays, errors, and increased operational costs. SAWIS is a smart weighing solution that revolutionizes the weighing process by combining man less operations with advanced technology to deliver unparalleled efficiency and accuracy.



The Future of Weighment is Here

SAWIS stands for Smart Automated Weighment and Information System. It is designed to streamline the weighment process by reducing human intervention and improving cycle times through an organized workflow. By integrating various advanced technologies, SAWIS ensures that the weighment process is smooth, accurate, and efficient.

KEY FEATURES OF SAWIS

1. Man less Weighment for Enhanced Efficiency

SAWIS enables a fully automated weighment process, eliminating the need for manual oversight. This automation leads to:

- **Reduced Cycle Time:** Faster weighment cycles mean increased throughput and productivity.
- **Operational Efficiency:** Minimizes human errors and frees up personnel for other tasks.
- **Cost Savings:** Reduces labour costs associated with manual weighment processes.

2. Advanced Vehicle Positioning Sensors

- **Precision Alignment:** Sensors accurately detect the position of the vehicle on the weighbridge platform, ensuring precise measurements.
- **Error Reduction:** Proper positioning minimizes measurement discrepancies caused by misalignment.

3. Integrated Traffic Management System

- **Boom Barriers:** Control the entry and exit of vehicles onto the platform, ensuring an organized flow.
- **Traffic Lights:** Signal drivers when to move onto and off the platform, reducing confusion and wait times.
- **Audible Announcements:** Speakers announce weight readings in any language of choice, facilitating clear communication with drivers from diverse backgrounds.

4. Automatic Number Plate Recognition (ANPR)

- **Camera Systems:** High-resolution cameras automatically read and record vehicle number plates.
- **Data Accuracy:** Eliminates manual data entry errors, ensuring that vehicle details are correctly logged every time.

5. Real-Time Weight Display

- **Digitizers:** Display weight measurements instantly, providing immediate feedback to drivers and operators.
- **Transparency:** Builds trust by allowing all parties to see weight readings as they happen.

6. RFID Technology Integration

- **RFID Antennas:** Read vehicle details from RFID tags and write weight data back onto them.
- **Seamless Data Transfer:** Ensures all relevant information is accurately captured and stored without manual intervention.





Enhanced Data Management and Validation

- **Direct Database Recording:** All data from the weighment process is recorded directly into a centralized database.
- **Multiple Validation Checks:** The system performs several validations to enhance weighment accuracy, such as cross-referencing vehicle weight with predefined parameters.
- **Audit Trails:** Comprehensive logging provides a complete history of weighment transactions, aiding in compliance and auditing processes.

Benefits of SAWIS Implementation

Operational Excellence

By automating the weighment process, SAWIS significantly enhances operational efficiency, allowing for:

- **Increased Throughput:** Handle more vehicles in less time.
- **Consistent Accuracy:** Advanced sensors and automated data capture minimize errors.
- **Streamlined Workflow:** Organized processes reduce bottlenecks and delays.

Cost Efficiency

- **Reduced Labor Costs:** Automation reduces the need for manual labour.
- **Minimized Errors:** Accurate measurements prevent costly mistakes associated with incorrect weight recordings.

Enhanced Safety

- **Reduced Human Exposure:** Minimizes the need for personnel in potentially hazardous areas.
- **Controlled Environment:** Automated barriers and signals regulate vehicle movement, reducing the risk of accidents.

Scalability and Flexibility

- **Customizable Settings:** Tailor the system to meet specific operational requirements.
- **Language Support:** Audible announcements in any language cater to a diverse workforce.
- **Integration Capabilities:** Seamlessly integrate with existing enterprise systems and software.

WHY CHOOSE SAWIS?

- **Innovative Technology:** Combines the latest advancements in sensors, RFID, and automation.
- **User-Friendly Interface:** Intuitive controls and displays make it easy to operate and monitor.
- **Robust Support:** Dedicated customer support for installation, maintenance, and troubleshooting.
- **Proven Reliability:** Designed to operate smoothly with all devices integrated, ensuring consistent performance.



Real-World Applications

Logistics and Transportation

Optimize the loading and unloading processes by accurately measuring vehicle weights, ensuring compliance with legal weight limits.

Manufacturing and Production

Monitor raw material input and finished goods output with precision, aiding in inventory management and production planning.

Mining and Aggregates

Handle heavy-duty weighments with accuracy, crucial for billing and regulatory compliance.

Conclusion

SAWIS is more than just a weighment system—it is a comprehensive solution that addresses the inefficiencies and inaccuracies of traditional weighment processes. By integrating advanced technologies into a cohesive and automated workflow, SAWIS offers a transformative approach that enhances efficiency, accuracy, and safety in weighment operations.

Experience the future of weighment with SAWIS. Transform your operations, reduce costs, and improve accuracy by embracing this smart, automated solution.

Contact us today to learn more about how SAWIS can be customized to meet your specific needs and to schedule a demonstration.



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