Avery Weigh-Tronix

Innovative Global Weighing Solutions
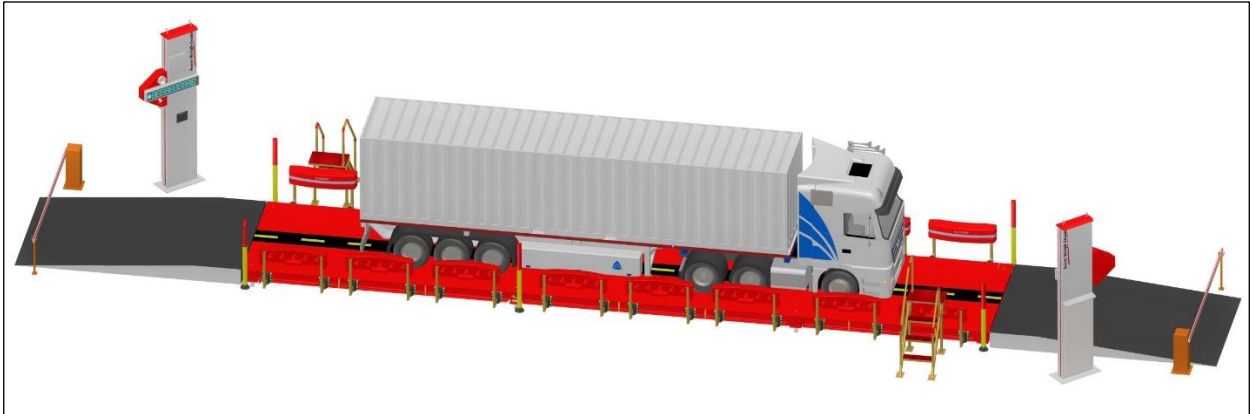
WEIGHING INTELLIGENCE

Smar**T**ower® - Unmanned Weighbridge System

Smar**T**ower® - Unmanned Weighbridge System is a smart add-on solution for Avery J2, BMI, J2/BMI Ultra series of road weighbridges for automated operation, without the need of a dedicated operator. This solution can also be added on to an existing road weighbridge of any make or model.

The system can automatically identify enrolled trucks, guide truck drivers on the weighbridge, verify the correct position of truck on the weighbridge and capture truck images from front and back at the time of weight recording. The system can be seamlessly integrated with a range of plant ERP systems to provide real time access to weighbridge data.

Solution Features -

➢ No need for dedicated weigh-room, as system is controlled over LAN

➢ Field instrumentation protected in outdoor tower enclosures

➢ Identification of trucks with UHF based long range RFID cards/tags

➢ Verification of correct truck position with Infrared sensors

➢ Guidance to truck drivers using programmed Audio & Visual messages

➢ Truck image capture from front & rear positions at the time of weight recording by megapixel IP cameras (Optional)

➢ Compatible for plant level integration with ERP over network

➢ Uni or Bi-directional configurations available to suit different needs

Specifications -

➢ **S**mar**T**ower®
- o Registered design – no. 333110-001
- o MS Powder coated with 3.6m height
- o Floor mounted with anchor bolts
- o Lifting provisions on top
- o Lockable cabinet with concealed wiring to house instruments

➢ **RFID system**
- o UHF (ISO 18006) reader on TCP/IP
- o Angle adjustable mounting on tower
- o 100x RFID cards (Optional - tags)

➢ **IP Cameras (Optional)**
- o 2 MP CMOS sensor
- o Day/night with 40m IR range
- o Secure, vandal resistant mounting
- o IP67 rated, PoE enabled

➢ **Audio system**
- o Amplified speaker
- o Event triggered voice messages
- o Std. language English/Hindi (others - optional)

➢ **Driver Display**
- o Dual-color (Red/Green) LED dot matrix
- o 13 characters scrolling, 150mm size
- o Message (English) & Weight display

➢ **Truck Position Sensors**
- o Through-beam IR sensors, IP67
- o Application designed mounting pillars
- o Optional - high-dust area version

➢ **Boom Barriers (Optional)**
- o Motorized barrier, 100% duty cycle
- o 4~4.5m adjustable Aluminum boom
- o Digital O/P or Ethernet controlled

➢ **WEIGHING iNTELLIGENCE Software**
- o Browser based modular application
- o Cloud compatibility
- o Innovative user-friendly interface
- o Multi-level security
- o Customized Database integration capability
- o Advanced diagnostics
- o Wide range of tickets & reports

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ISO 9001