



**Mirrabooka**  
Systems Pty Ltd

Vehicles fitted with automatic identification (RFID) can be processed without any driver interaction



# AWCS Release 3

## Automatic Weighing Control Station

**Mirrabooka Systems Pty Ltd**

Providing software solutions to the Sugar Industry since 1986

Web based displays

Employs a range of methods and devices for identifying vehicles

The AWCS R3 is the third generation of this product and incorporates all the features of the previous releases, as well as building on experiences gained from these earlier releases. It has been designed to provide a fully automated weighbridge operation without manning. This is achieved by the extensive use of a dynamic web based mimic.

### Features:

Dynamic Web Based Mimic Graphically Illustrates Operation

Supports Wide Range of Field Entry Devices & Mechanisms for Automatic Operation

No Manning Required

Supports All Major Manufacturer's Weighbridges

Multiple Operation Modes

- Front End to a Main Host
- Integrated Receivals & Despatch
- Batch Transfer to a Remote System

Confirmation of the Load Details by the Driver before proceeding

Provides a Wide Range of Data Capture Devices

Integrated Solution Provides Full Reporting Facility

Driver Documentation Produced for Weighing Operations

Traffic Light Control for Driver Operation

Industrial Terminal for Driver Information and Entry

# AWCS R3 – Description

RFID tags and readers to automatically identify vehicles

Cost effective OMR tickets

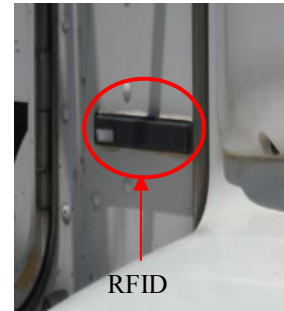
Industrial grade terminal displaying dynamic mimic and instruction messages

Confirmation of Load Details by Driver before proceeding

## Data Acquisition Devices

### RFID Tag Reader Module

RFID (Radio Frequency Identification) tags can be fitted to both the prime mover and the trailer.



### OMR Ticket Readers

The Optical Mark Recognition (OMR) Tickets are designed for a specific consignment note application; each site may have one or more ticket formats for the particular industry requirements.



## Industrial Terminal

This is an industrial grade terminal, which has a touch screen and a separate keyboard which is suitable for external operation. The main function of this terminal is to display the dynamic mimic, instruction messages to drivers and request entry from the keyboard. Drivers may be requested to enter Load, Transaction or Registration details as a method to identify the vehicle and its purpose.



Vehicles fitted with automatic identification would usually not require driver entry. In addition to providing driver access, the display provides a dynamic mimic of the weighbridge operation. Illustrating weighing sequence stage, advisory, error messages

and full details of the pending transaction. With this information now available to the driver in real time, they are kept fully informed at all stages of the weighing operation.



## Driver Confirmation

In the situation where a driver is requested to enter load details, this load or transaction's details is displayed. The operator has the option to confirm this is the correct transaction or reject it. Should the driver not confirm that is the correct transaction, the AWCS will request a new load number.



# AWCS R3 – Description

Will accept vehicles with or without automatic ID

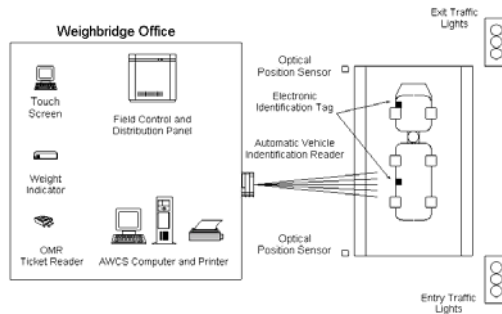
PLC provided for field control

Strip docket printer provides driver receipts

Mimic can be displayed remotely on any workstation

## Weighbridge Control

The weighing control will vary for different vehicle configurations. Vehicles fitted with RFID tags can be set up to automatically weigh without any driver interaction required. This mode of operation is often used for vehicles that always carry the same produce (eg Sugar Cane), and may have the consignment details available from the field using telemetry.



Vehicles fitted with RFID tags that may carry more than one product can use the combination of tags and LIC (Load Identification Codes). This will require the entry of the LIC on the first weighing only. Other vehicles that are not fitted with RFID tags will need to enter the LIC for each weighing cycle.

A PLC controls all of the field devices required for full weighbridge operation. This would usually consist of traffic lights, position sensors, alarms, etc.



## Operations Modes

All transactions are recorded locally, and can be loaded down to a remote server on a transaction by transaction basis or in batch mode. The unit can operate as a front end data capture unit for the Cane Receivals or WayTrans System.



## Driver Documentation

At the completion of each transaction, a strip docket is printed containing the transaction details and is presented to the driver. The system has the ability to print transaction reports which provide details of each transaction for the week.

## Mimic Display

A mimic display of the weighbridge operation dynamically illustrates each step of the operation and can be displayed both locally to the driver and at a remote location for monitoring purposes. The operation of the remote field devices are illustrated on the mimic: the Entry and Exit limit beams, the Traffic Light sequence, the vehicle weight. Load and product details are updated during

the weighing sequence.

For sites where a Traffic Scheduling System is installed, trip details can be displayed when the vehicle has completed the weighing cycle.

