

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



AWCS

Automatic Weighing Control Station

Mirrabooka Systems Pty Ltd

Providing software solutions to the Sugar Industry since 1986

Employs a range of methods and devices for identifying vehicles

The AWCS has been designed to provide a fully automated weighbridge operation. This is achieved without the requirement of weighbridge manning.

Features:

Fully Automated Weighing

Integrated Solution Provides Full Reporting Facility

No Manning Required

Driver Documentation Produced for Weighing Operations

Supports All Major Manufacturers Weighbridges

Traffic Light Control for Driver Operation

Provides a Wide Range of Data Capture Devices

Dynamic Mimic Display graphically Illustrates Operation

Multiple Operation Modes

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

Weighbridge Industrial Terminal

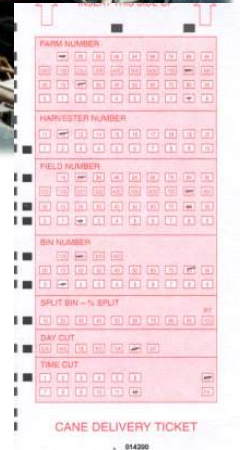
AWCS – Description

RFID tags and readers to automatically identify vehicles

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.

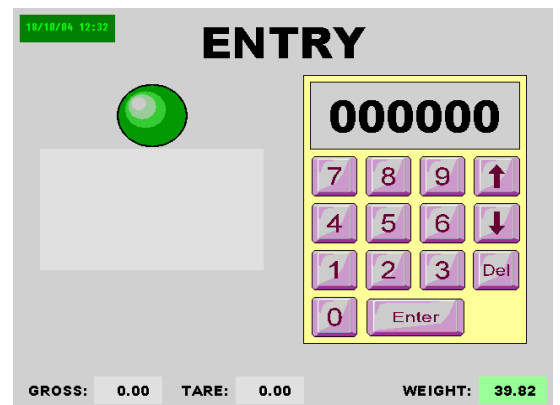
Touch Screen Terminal

This device is a small industrial terminal with a touch screen that can be configured with a range of screen layouts. The main function of this terminal is to display messages, present

pushbuttons for specific functions (Gross, Tare) and provide a numeric keypad to enable the entry of LIC (Load Identification Codes) by the driver.

Cost effective OMR tickets

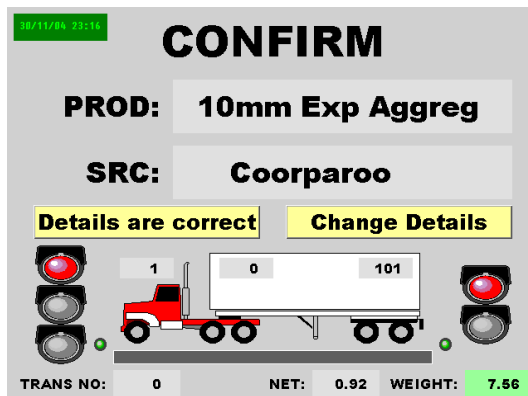
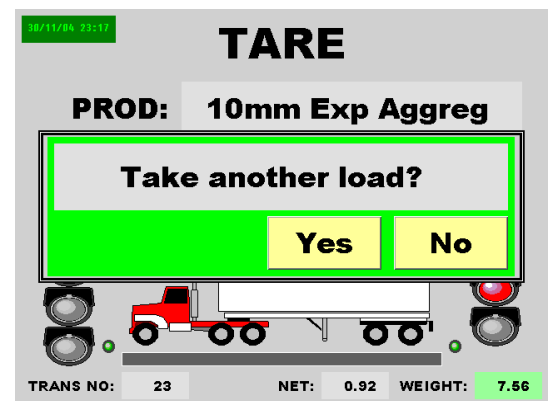
Touch screen allows selection of product or transaction details



Weighbridge Industrial Terminal

As well as providing the ability for the driver to enter transaction details this specialised terminal displays a dynamic mimic of the weighbridge operation. This provides the driver with the weighing sequence details, advisory and error messages. With this information now available to the driver in real time, they are kept fully informed at all stages of the weighing operation.

Weighbridge mimic keeps drivers informed



AWCS – Description

Will accept both 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

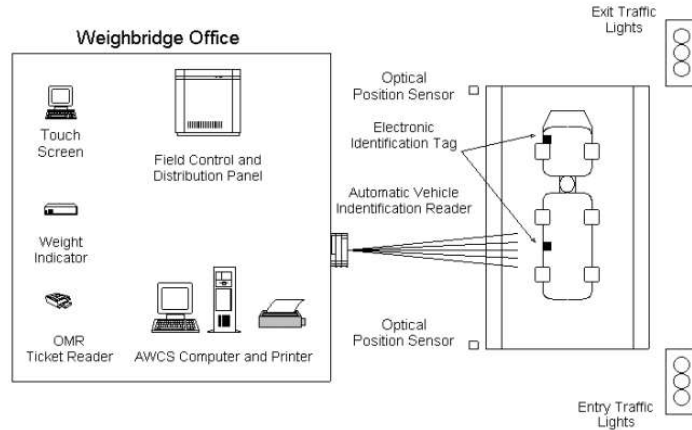
Weighbridge Control

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

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

Driver Documentation

At the completion of each transaction, a trip 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 op-

eration 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.

