

Mirrabooka

Providing software solutions to the sugar industry for more than 30 years



Automatic Weighing Control Station – Release 4

The AWCS R4 is the fourth generation of this product. Whilst incorporating all the features of the previous releases, it now includes a web interface for table maintenance, accessible by any user with a modern web browser. The system 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:

Web based interface for table maintenance

Dynamic web based mimic graphically illustrates operation.

Supports wide range of field entry devices and mechanisms for automatic operation.

No manning required.

Supports all major manufacturers' weighbridges.

Multiple operation modes:

- Front end to a main host
- Integrated Receipts and Dispatch
- Batch transfer to a remote system

Confirmation of the load details by the driver before processing.

Provides a wide range of data capture devices.



Integrated solution provides full reporting facility.

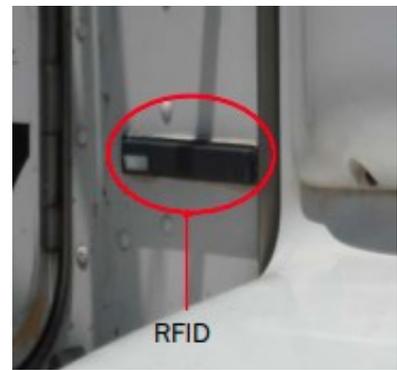
Driver documentation produced for weighing operations.

Traffic light control for driver operation.

Industrial terminal for driver information and entry.

RFID Tag Reader Module

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



Industrial Terminal

This is an industrial grade terminal, which incorporates a touch screen and separate keyboard 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.



Reader ID	Reader Abbreviation	Reader Description	Reader Type	Tag Type	Interface Type	IP Address
1	awcs	AWCS Tag Reader	7	2	Ethernet	192.168.16.20
2	awcs	AWCS Tag Reader	7	2	Ethernet	192.168.0.53

Bin Tags

Tag No	Fleet No	Vehicle Type	Plant No
30424	9025	Prime Mover [P]	2
20094	9026	Prime Mover [P]	2
20093	9027	Prime Mover [P]	2
20069	9028	Prime Mover [P]	2
20067	9029	Prime Mover [P]	2
20061	9030	Prime Mover [P]	2

First Prev 1 2 3 4 Next Last

New Clone Delete Query

Tag No: 20122
Fleet No: 1
Vehicle Type: Trailer [T]
Plant No: 3

Save Save > Continue Cancel First Prev 1 / 628 Next

Web Interface Features

Table maintenance is carried out through the use of a web based interface, accessible to any user with a modern web browser.

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.

Northern District Mill 16 Jan, 09:24 Weighbridge

WEIGHT	NET WT	TRANSACTION	PRODUCT
62.60	40.89	900540	Misc

Are these order details correct?

PROD: **BULK MOLASSES**

CUST: **Fizzy Cola Ltd**

CARR: **Smith Transport**

Yes No

Load No	Time	Weight	Time
230204	942	22.74	
23768	94	39.20	11:02
23767	28	16.58	10:54
23766	87	20.03	10:49
512804	949	28.03	10:40
23765	50	21.70	10:33
23764	44	19.79	10:25
23763	94	23.22	10:19

78 592
RBN554

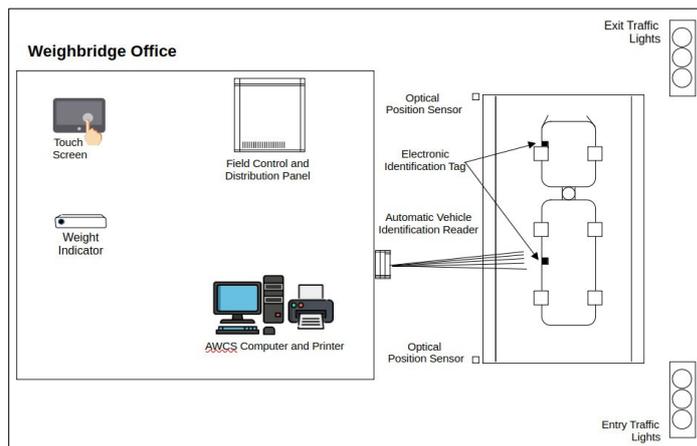
EXIT ENTRANCE

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.

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.



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

Driver Documentation

At the completion of each transaction, a strip document 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 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.

