GALLAGHER
TWR5 SCALE AND PANEL
SETUP INSTRUCTIONS FOR
CONNECTION TO
HERDMASTER

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OBJECTIVE:

Connect Gallagher TWR5 scale to Herd Master via Blue Tooth. The TWR5 will have an RFID panel connected, and therefore will send weight and EID

EQUIPMENT USED:

Windows PC with Herd Master installed
1 x TWx Scale
1 x RFID Panel
2 x USB to Serial devices (PC only has USB ports, not needed if PC has comm ports)
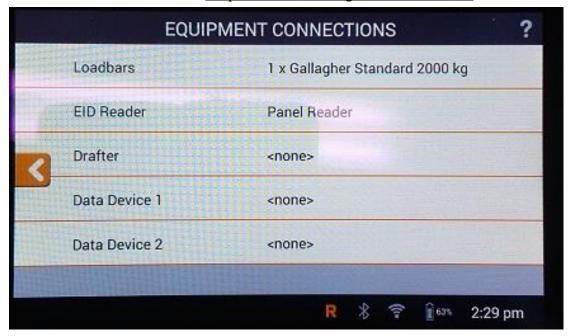2 x Active (requires external power) Bluetooth serial Dongles

In our setup we are using the external Bluetooth dongles that are used with W810 etc. These devices require power, and we will be providing power from an external 7.5 v power supply, therefore the mode must be changed to 'Adapter' via the switch on the side of the dongle.

TWR5 Setup:

NOTE: Ensure the Bluetooth Dongles are powered on, but NOT connected to the PC
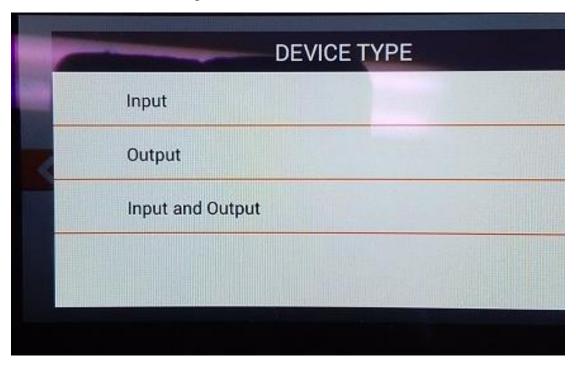
    I.   Navigate to the Equipment Connections Menu.
    II.   Select Data Device 1. This port is to send weights to Herd Master
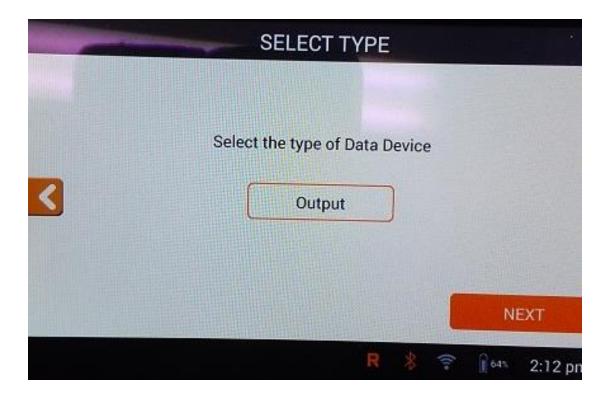

    III.   Change the type to "Output". Touch on the word "input"
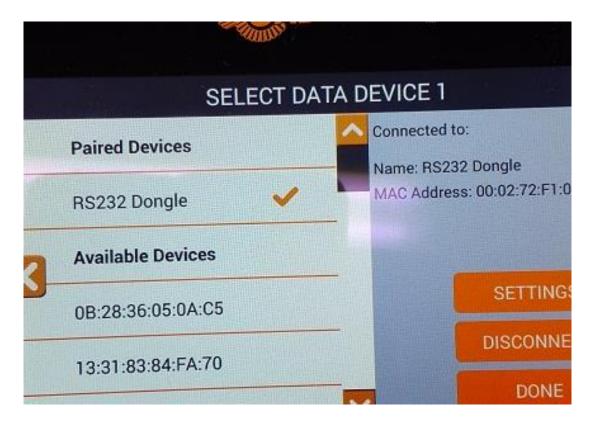
IV.   Touch the word "Output"

V.   Select 'Next'

VI. Select 'Bluetooth (Wireless)

VII. The TWR5 will search for all available Bluetooth devices. Select the one of the Bluetooth Dongles that will be used to receive weight only
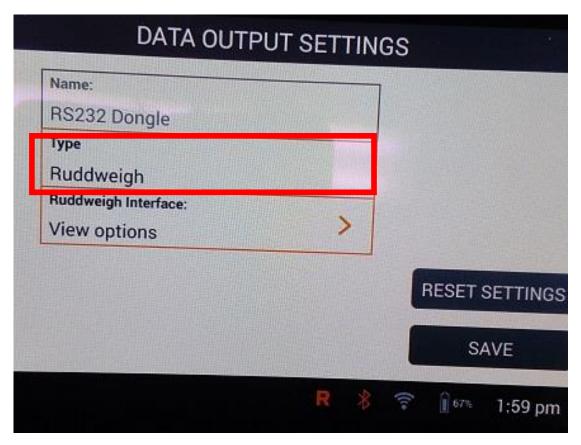

Once connected select 'Done'. The Home screen will be displayed, repeat steps II to VII for Data Device 2, selecting the 2nd Bluetooth Dongle. This port will be for sending the EID

VIII.   From the Equipment Connections menu, select 'Data Device 1'

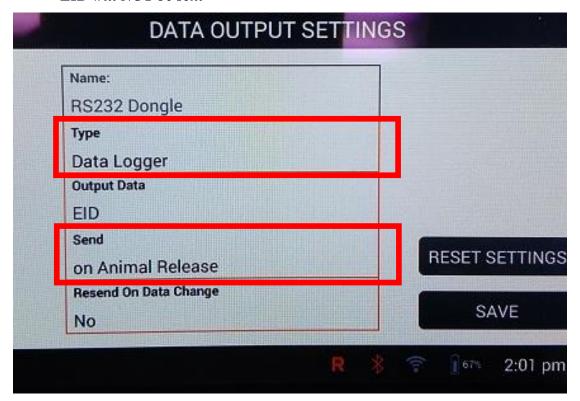IX.   Data Device 1 is for sending **weight**, so ensure "type" is "Ruddweigh" and select 'save'.

X.   Navigate to Equipment Connections, Data Device 2.

XI.   Data Device 2 is for sending '**EID**', so ensure "type" is "Data Logger" and the "send" setting is "on animal release" select 'save'. *NOTE: It is important that the unit set to "on animal release", otherwise if the weight is locked, the EID will NOT be sent*

Successful setup of the TWR5 will show Load Bars (Load Bar simulator), EID Panel enabled, Data Device 1 and 2 setup.

EQUIPMENT CONNECTIONS

Loadbars	1 x Gallagher Standard 2000 kg
EID Reader	Panel Reader
Drafter	<none>
Data Device 1	RS232 Dongle (Ruddweigh)
Data Device 2	RS232 Dongle (Data Logger)

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Setting up Bluetooth on the PC:

I.   Ensure the MAC address of each Blue Tooth dongles is known. On new dongles there is a label showing this:

II. Connect the USB to Serial devices one at a time to the PC. As each USB to Serial device is recognised by the PC, take a note of the communications port number (this can be done by looking in device settings)

III. Connect the Blue Tooth dongles to each of the USB to Serial devices, and use an external power supplies. A green light should be lit indicating external power.

NOTE: At this point each Bluetooth Dongle is paired with the TWR5 Data Device Output 1 or 2 (The blue light on the Bluetooth Dongle will be lit). It will be important when setting up Herd Master that the Bluetooth Dongle and Comm Port are known.

SETUP HERD MASTER:

I.   Start Herd Master on the PC

II.   From the Main Menu select Setup -> RFID and Scale Devices

III. Click on 'Add' and add two new devices 'TWR5 – Weight' and 'TWR5-EID'. Keep the default settings
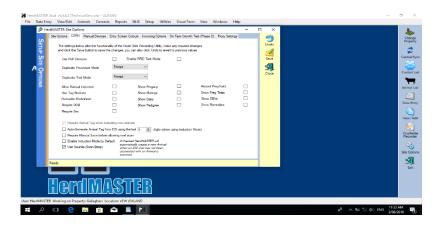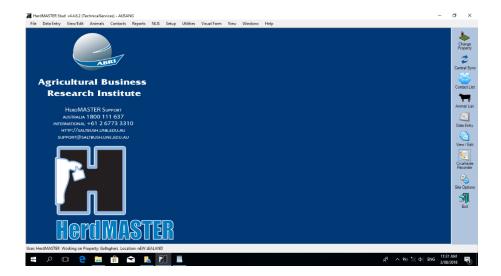

IV.   Click Close

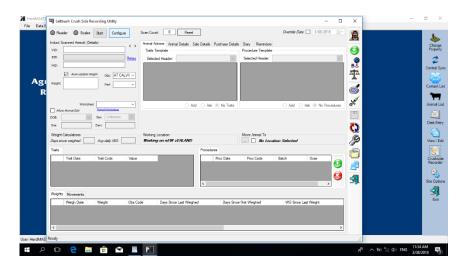V.   From the main menu select setup -> site options ->CSRU tab

VI.   In Site options ensure "Use PnP Devices" is <u>NOT ticked</u>
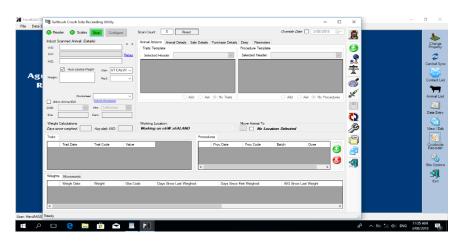

VII.   Next select Manual Devices and:
   a. Assign TWR5-Weight to Comm port that has Bluetooth Dongle Paired <u>with Data Device 1 on the TWR5,</u>
   b. Assign TWR5- EID to the Comm port that has Bluetooth Dongle <u>Paired with Data Device 2 on the TWR5.</u>

VIII.   Click 'Save'

IX.   Click close

X.   Click 'Crush side Recorder' icon

XI. On the Saltbush Crush Side Recording Utility, click on 'Configure'

XII. Check that the HR5 and Scales and associated comport is saved

XIII. Click 'Close'

XIV. On the Saltbush Crush Side Recording Utility screen click 'Start'. Reader and Scales indicator will be green.

XV.   The system is now running.

XVI.   Now scan a tag, the EID will now appear in the EID box in the Crush Side utility. (NOTE: if the tag is not known, a prompt to enter details about the animal will appear. At a minimum the VID needs to associate with the EID tag for to continue.)

XVII.   Ensure load bars are connected to the TWx (or load bar simulator), and apply weight. The weight displayed on the TWx will be displayed in the 'weight box' in the Crush Side utility.

IMPORTANT NOTES:

If there is problems with drivers, this will be due to windows operating system, so the advice would be to update drivers, or contact a Microsoft certified technician.

Another issue seen in testing is when start is selected for the first time, and the first weight and EID is received by Herd Master, the EID Comm Port goes off line. If this happens stop and restart Herd Master, delete the animal just weighed on the TWR5, and weigh again,