



GALLAGHER TW-3 Weigh Scale and Data Collector User Guide

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TW-3 Weigh Scale and Data Collector User Guide



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TW-3 Weigh Scale and Data Collector

Thank you for purchasing the Gallagher TW- 3 Weigh Scale unit. The Gallagher range of weighing systems is simple, tough, innovative and reliable.

BONUS OFFER

Register your product online at www.gallagherams.com to extend your warranty to two years for free.

Follow these instructions for the setup and first use of the TW- 3.

Further information can be obtained by tapping when displayed on screen.

BOX CONTENTS

The Gallagher TW-3 box contains:

- Carry Bag
- TW-3 weighing unit
- 110V – 230V Mains AC adapter
- USB cable
- USB flash drive
- 12V battery cable with alligator clips
- Mini Serial Adapter (2M1709)
- Mounting bracket and mounting hardware

SPECIFICATIONS

Operating Temperature	-20° to 50°C -5° to 120°F
Environmental Protection Rating	IP67
Input Voltage	12 V DC
Estimated battery run time	16 hours at 60% brightness 12 hours at 100% brightness

CHARGING THE BATTERY

To ensure optimum performance of the TW-3, the internal battery may need to be charged for up to 16 hours before first time use.

Important: If the TW-3 is to be stored for an extended period, this should be in a cool dry place. For optimum battery life, store the TW-3 at 50% capacity.

Always charge the battery indoors.

1. Connect the power adapter at the base of the unit and plug the TW-3 into a power outlet and switch ON. The charging icon will display on the screen.



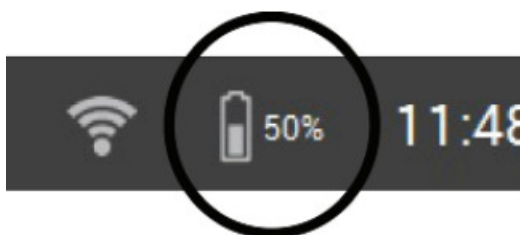
Warning: The power adaptor is intended for indoor use only. Do not expose to rain or dampness.





2. When the charge shows 100% the TW-3 is ready to use with or without the power adapter.

Note:

- When the TW-3 is in use, the battery icon will display and show remaining charge.

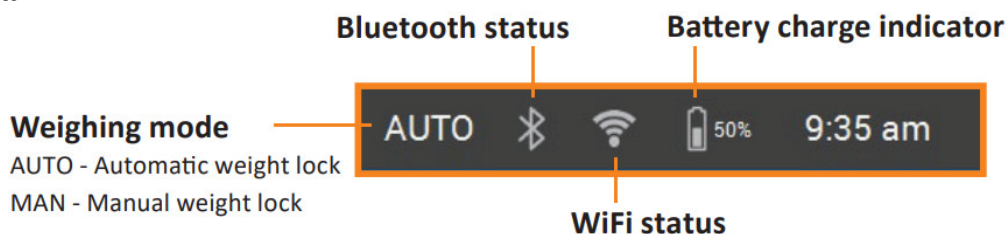


- When using the scale and the charge level falls below 10% the battery icon will flash with a red outline. You will have about 30 minutes to complete the weighing session before the TW-3 must be charged.
- When the charge level becomes critical the unit will shut down.
- To check remaining run time at current settings, from the Home screen, go to Settings  > About > Battery.
-  The battery error icon will display if the battery is too hot (above +45°C) or too cold (below 0°C). The Scale will keep operating while plugged in but will not charge properly until at room temperature.

UNDERSTANDING THE TW-3 WEIGHING UNIT



Footer bar detail



Connections



INSTALLATION

Installing the TW-3

The TW-3 can be placed on a table top or mounted on the bracket supplied.



Installing the Scale bracket

The bracket can be mounted on a flat vertical surface, a round post, or a rail.

To mount the bracket on a flat vertical surface, or a round wooden post, use the 4 x tek screws included with the unit.



To mount the bracket on either a vertical or horizontal bar, use the 'U' bolts included with the unit.



Important:

It is not recommended to mount the TW-3 bracket on the weighing crate or chute as interaction with the scale can impair weighing performance.

Installing the loadbars

If using loadbars, follow these steps:

1. Select a weighing site that provides a solid, level and well drained surface.
2. Ensure the loadbars and platform are well secured and clear of any obstructions.
3. Either bolt the loadbars to the concrete pad or locate them on studs set into the concrete. It is important that

the loadbars and platform sit flat without any rocking or twisting to avoid weighing inaccuracies.

Note: It may be necessary to shim the loadbars or platform to ensure there are no twisting pressures within the platform. Weights should be evenly distributed over the top of the weigh bars.

4. For Wired Loadbars: Connect the loadbar cables to the TW-3. For Wireless Loadbars: The TW-3 must be within 8-10m of the loadbars. Refer to the Gallagher Loadbars Instructions for further installation information. A beep will sound indicating a successful connection/ disconnection of the loadbars.


WARNING – Do not weld the loadbars or any structure that they are attached to. Loadbars contain sensitive electronic devices which will be damaged by welding. Damage caused by welding will void warranty.




- clear of the platform to ensure it does not interfere with the flow of animals during the weighing cycle
- within easy reach of the loadbar leads
- within easy reach of the operator (for manual weighing)





FIRST TIME START-UP

The first time the TW-3 is powered on, the First Time Start-Up screen will display. Tap the screen to update the language, time, date and weight fields as required and then tap Save.

FIRST TIME START-UP			?
Language	English	>	
Time Zone	New Zealand - NZST	>	
Date	14-03-2017	>	
Time	2:35 pm	>	
Weight Unit	kg	>	




2:35 pm

To change any of these settings later, they can be accessed via Settings  on the right of the Home screen.

For more information about this screen or any TW-3 screen, tap  displayed in the top right corner of the screen. This will display the On-screen Help with more information about what you see on the screen.

Note: The navigation keys on the keypad can be used at any time to select the TW-3 functions, as an alternative to the touch screen.

Auto Shutdown

When the TW-3 is left idle for more than 30 minutes it will automatically shutdown to preserve the battery. Press the Power button to turn the unit back on.

Note: When the battery charger is connected, the TW-3 will not shutdown after the inactivity period. The screen will remain active.

CONNECTING EQUIPMENT TO THE TW-3

Connecting to Wireless Loadbars

1. On the TW-3, tap Settings > Equipment Connections > Loadbars > Wireless.
2. The TW-3 will search for the loadbars. When the loadbars have been located, tap to select them from the list, then tap Connect.

Note: As per the Wireless Loadbar installation instructions, your loadbars must be switched on and in range to display in the search list.
3. The connection process will take up to 30 seconds while pairing occurs between the loadbars and the TW-3. Once completed, tap Done.
4. Create a new session, by tapping New > Quick Start. The current weight will display as 0.0kg. If it's not 0.0, press the Zero button. Apply some weight to the bars to confirm the connection is working.

Note: After 15 minutes of inactivity, wireless loadbars will disconnect as TW-3 goes into sleep mode. Press Power button and go to the Weigh screen to re-connect.

Connecting to an EID Reader

The EID Reader connects to the TW-3 by either a serial cable or via Bluetooth®.

1. Turn On the EID Reader.
2. Turn On the TW-3.
3. On the TW-3, tap Settings  > Equipment Connections > EID Reader.
4. Select how the Reader is connected, either via Bluetooth or serial cable.

Note: A mini serial adapter is included with the TW-3 if a female serial connection is required.


Important: You can also connect to your TW-3 by initiating a Bluetooth® enabled connection from your reader. A passcode of “0000” may be required to complete this connection.

Refer to Bluetooth — Connect EID Reader in the TW-3 On-screen Help or your EID Reader User Manual for further information on pairing the reader.

Connecting to a Drafter/Sorter

To connect the TW-3 to a drafter, use the data cables supplied with your drafter.

Refer to your Drafter User Manual for more information.

1. Turn On the TW-3.
 2. On the TW-3, tap Settings  > Equipment Connections > Drafter.
 3. Specify the type of drafter that is being connected, to complete the setup.
- If your drafter is not listed, tap Create Custom and follow the configuration wizard to set up your drafter.

START A SESSION

When you gather information about an animal, it is recorded in a Session. Each event such as weighing, adds a record to the current session. A template using pre-determined defaults can be set up and used each time you start a new session.

Note: It is recommended a new session is opened for a new day's activity or for a new group of animals. An animal cannot appear within the same session more than once.


To start a new session:

1. From the Home screen, tap New . The New Session screen is displayed.
2. Tap Quick Start to open the Weigh screen with the scale default settings.


Note: To set up and use templates, refer to the TW-3 On-Screen Help.




To customize the session: click on the OPTIONS button at the lower left of the screen. Here you can set up the weighing mode, drafting options, traits and name for the session. Refer to Session Options (p. 9) for more information.

Note: Before weighing, 0.0 should be displayed. If not, press .


3. Load the animal onto the platform.
4. If required, you can record the animal's Visual Tag Number or scan an Electronic ID.
5. If weighing in AUTO – Automatic weight lock, the scale will lock on to the weight and hold it on the screen until the animal leaves the platform.

If weighing in MAN – Manual weight lock, you must first press **Weigh** . When the weight becomes stable, it will lock.

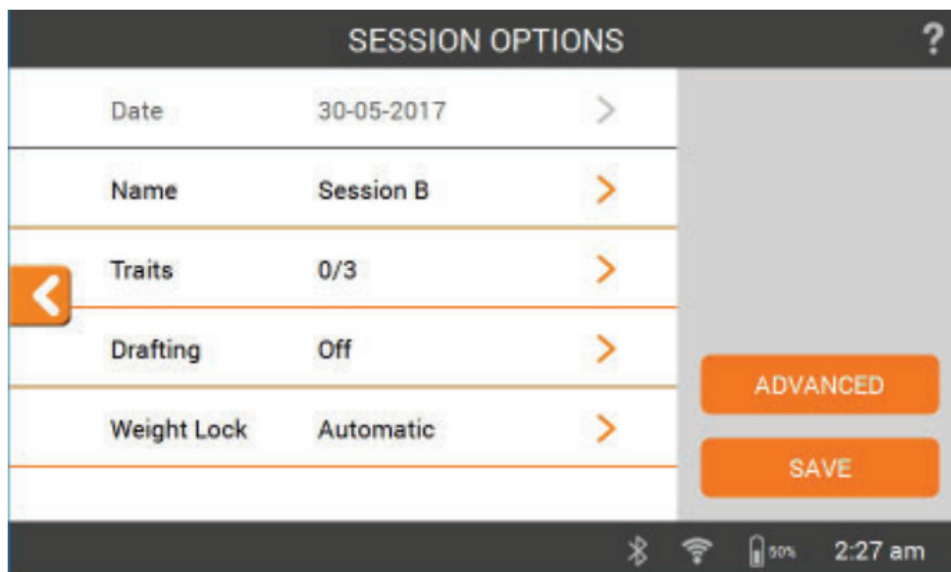
6. Move the animal off the platform.

Important: If the weight displayed does not always return to 0.0 after weighing, check for dirt or manure that may have been left on the platform. The TW-3 can be re-zeroed by pressing .

Notes:


- When the weight locks, there will be a beep (if turned on in Settings) and a red light above the Weigh button displays briefly.
- Other information, for example: Notes, can be entered once the weight has locked or an ID has been entered.
- In either mode, you can re-weigh an animal by pressing **Weigh**  after a successful weight lock.
- If drafting is turned on, the gate number and group will display, in top right corner of the screen, indicating the drafting category. Tap this box to override the drafting decision.
- By default the scale will automatically zero any debris left on the platform between 2-5kg depending on the capacity of your loadbars. This can be altered in the connected loadbar settings.
- If using traits within a session, the selected traits will appear down the right side of the screen. A maximum of 3 traits can be used in any one session. Once an animal is identified, simply tap the trait box to assign a value.

Session Options



The Session Options menu is used to configure settings for the current session.

1. From this screen, tap the required option to change the session name, turn drafting On or Off, add traits to the session, change the weight lock mode and configure Advanced settings.
2. Tap Save to keep any changes.


Note: Use the On Screen Help  for step by step information to set up drafting, add traits to the session or to configure the Advanced settings.

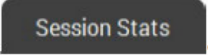
New traits are set up in the Settings menu before they can be added to a session.

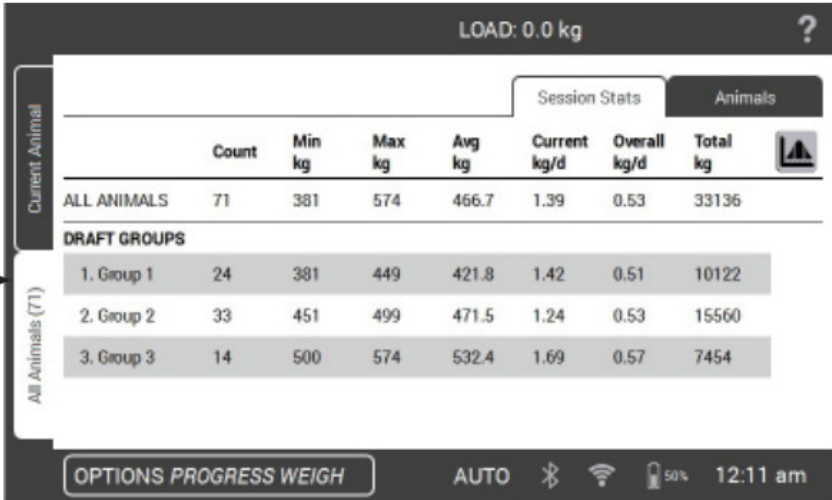
VIEW ANIMAL INFORMATION

The information collected during a session can be viewed from the session's Weigh screen.

To view information about all the animals in the session;

Tap **All Animals**, 

Tap .

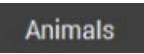


	Count	Min kg	Max kg	Avg kg	Current kg/d	Overall kg/d	Total kg
ALL ANIMALS	71	381	574	466.7	1.39	0.53	33136
DRAFT GROUPS							
1. Group 1	24	381	449	421.8	1.42	0.51	10122
2. Group 2	33	451	499	471.5	1.24	0.53	15560
3. Group 3	14	500	574	532.4	1.69	0.57	7454

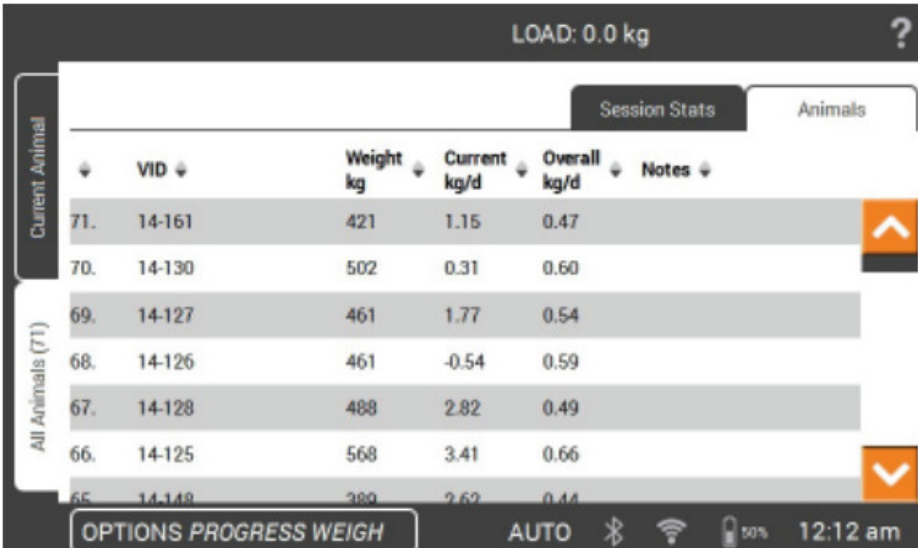
Tap  to view weight range of animals.




To view information about an individual animal weighed;

Tap .

Tap an animal VID to view this animal on the Weigh screen.



	VID	Weight kg	Current kg/d	Overall kg/d	Notes
71.	14-161	421	1.15	0.47	
70.	14-130	502	0.31	0.60	
69.	14-127	461	1.77	0.54	
68.	14-126	461	-0.54	0.59	
67.	14-128	488	2.82	0.49	
66.	14-125	568	3.41	0.66	
65.	14-149	289	2.62	0.44	

Tap  to view the history of weights for the selected animal, from the **Weigh** screen.




TRANSFER SESSION DATA

Download the Gallagher Animal Performance app from Google Play or the App Store.



If required, follow the prompts and create a Gallagher Account.

If required, follow the prompts and create a Gallagher Account.


- On the TW-3, ensure Wi-Fi is connected and press the Synchronise icon  on the Home screen.
Note: The first time you sync data from the TW-3 you will be prompted to enter your registration credentials on the scale.
- The Syncing process will automatically begin and any differences in session and animal data on the TW-3 or in Gallagher Animal Performance, will be updated.

After syncing, the same data will be present on the TW-3 and Animal Performance.

- To view your animal data, open the Gallagher Animal Performance Mobile App and sync your data or login to the Gallagher Animal Performance Web App: <https://am.app.gallagher.com/amcidashboard>

CONNECTING TO WI-FI

Connecting to Wi-Fi on the TW-3 enables communication with data devices. It also allows synchronisation of animal data to the Animal Performance App and ensures the TW-3 can receive the latest software updates.

- Tap Settings  > Device Settings > Wi-Fi.
- Ensure Enable Wi-Fi is selected.
- Tap Search. The TW-3 searches for available networks.
- Select your Wi-Fi Network and enter the Wi-Fi Password.
- Tap Done then Connect.

SOFTWARE UPDATES

It is important to update the TW-3 software to ensure you have the latest enhancements and bug fixes. The TW-3 will automatically check for software updates when Wi-Fi is connected. If a new version is available, follow the onscreen instructions to complete the update.

CARE AND MAINTENANCE

The TW-3 is a tough and reliable product designed for use in typical livestock environments. Proper care and maintenance can extend its life. Listed below are guidelines for keeping the TW-3 in good condition.

- Do not submerge the TW-3 in any liquid.
- Store in a cool, dry place. Avoid storing in direct sunlight.
- After use, clean with a damp cloth. Take care not to scratch the display.

APPROVALS AND STANDARDS



This symbol on the product or its packaging indicates that this product must not be disposed of with other waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city recycling office or the dealer from whom you purchased the product.

FCC

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: **(1)** this device may not cause interference, and **(2)** this device must accept any interference, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Changes or modifications not expressly approved by Gallagher Group Limited could void the user's authority to operate the equipment.

Industry Canada

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1. this device may not cause interference, and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This radio transmitter (IC: 7369A-G0260X) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Antenna Types:

- BR600 Small Antenna Panel (G03121)
- BR1300 Large Antenna Panel (G031424)
- Sheep Auto Drafter Antenna Panel (G05714)



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DECLARATION OF CONFORMITY

We,
Gallagher Group Ltd
Kahikatea Drive
Hamilton
New Zealand

www.gallagher.com

Declare that the products:

G02601 TW1 WEIGH SCALE

G02603 TW3 WEIGH SCALE

conform to the Radio Equipment Directive: 2014/53/EU

conform to the RoHS 2 Directive: 2014/65/EU

Compliance has been demonstrated by testing the product to the following standards,
which have been published in the Official Journal of the European Communities:

ETS! EN 301 489-1 v2.1.1 (2017-02): Report

ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; 1703.0

Part 1: Common technical requirements; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU

Bluetooth transmit frequency: 2.4 GHz: transmit power less than 50mW

Wi-Fi transmit frequency: 2.4-2.485 GHz: transmit power less than 63mW

This declaration is issued under the sole responsibility of the manufacturer, Gallagher Group Ltd.

I hereby declare that the products defined above comply with the above standards and all products supplied under this Declaration will be identical to the sample tested.

Authorized Representative:

Ronald Wassink


Position in Organisation:

Operations Manager Gallagher Europe B.V.

www.gallagher.eu

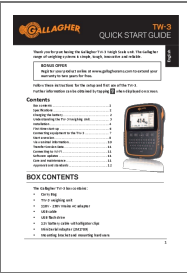
Signature:

Date:

	5 th July 2017
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www.gallagher.com

Gallagher Private Bag 3026, Hamilton, New Zealand



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TW-3 Weigh Scale and Data Collector, TW-3, Weigh Scale and Data Collector, Scale and Data Collector, Data Collector, Collector

References

- [Animal Performance](#)
- [Gallagher Group Limited](#)
- [Animal Performance](#)

[Manuals+](#).