Manuals+ — User Manuals Simplified.

GALLAGHER TWR-1 APS Weighing Computer with Data Collector User Guide

Contents

GALLAGHER TWR-1 APS Weighing Computer with Data Collector

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

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

Follow these instructors for the setup and first use of the TWR-.
Further informant can be obtained by tapping when displayed on screen.

BOX CONTENTS

The Gallagher TWR- box contains:

- Carry By ag
- TWR- weighing unit
- 110V – 230V Mains AC adapter
- USB cable
- USB fl ash drive
- 12V beery cable with alligator clips
- Mini Serial Adapter (2M1709)
- Muong bracket and moong hardware

SPECIFICATIONS

- Operand Temperature -20o to 50oC -5o to 120oF
- Environmental Proteron Rang IP67
- Input Voltage 12 V DC
- Seated beery rune at 100% brightness at 60% brightness

- Weigh only 12 hours 16 hours
- Weigh/Read 6 hours 8 hours
- Read only 3 hours 4 hours

CHARGING THE BATTERY

To ensure optimum performance of the TWR-, the internal beery may need to be charged for up to 16 hours before first me use.

Important: If the TWR- is to be stored for an extended period, this should be in a cool dry place. For op mum beery life, store the TWR-1 at 50% capacity. Always charge the beery indoors.

1. Connect the power adapter at the base of the unit and plug the TWR- 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.

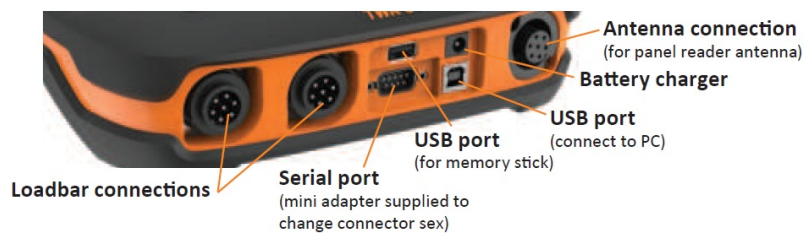2. When the charge shows 100% the TWR- is ready to use with or without the power adapter.

Note:

- When the TWR-1 is in use, the battery icon will display and show remaining
- When using the scale and the charge level falls below 10% the battery icon will flash with a red You will have about 30 minutes to complete the weighing session before the TWR-1 must be charged.
- When the charge level becomes critical the unit will shut
- 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 ⁰C) or too cold (below 0⁰C). The Scale will keep operating while plugged in but will not charge properly until at room temperature.

UNDERSTANDING THE TWR-1 WEIGHING UNIT

Find animal
Look up and add animal to a session

Remove animal

On-screen Help
Touch to display information about the current screen

Touch Screen
Tap the screen icons, field names or buttons to view or enter data.

Weigh screen

Weigh button
Records animal weight

Footer bar

Zero button
Sets the displayed weight to zero

Power button
Turn TWR-1 On/Off

Navigation keys
These buttons can be used to navigate the functions of the scale as an alternative to the touch screen.

Home Button
Return to the Home screen

Change mode from numeric to alpha text entry

Backspace/Delete

Space bar

Footer bar detail

Weighing mode
AUTO - Automatic weight lock
MAN - Manual weight lock

Bluetooth status

Battery charge indicator

Panel reader status

WiFi status

Antenna connection
(for panel reader antenna)

Battery charger

USB port
(connect to PC)

USB port
(for memory stick)

Loadbar connections

Serial port
(mini adapter supplied to change connector sex)

INSTALLATION

Installing the TWR-1
The TWR- 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 verbal 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 TWR-1 bracket on the weighing crate or chute as interaction with the scale can impair weighing performance.

Installing the load bars

If using load bars, follow these steps:

1. Select a weighing site that provides a solid, level and well drained surface
2. Ensure the load bars and platform are well secured and clear of any
3. Either bolt the load bars to the concrete pad or locate them on studs set into the It is important that the load bars and platform sit flat without any rocking or twisting to avoid weighing inaccuracies.
   Note: It may be necessary to shim the load bars 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 Load bars:** Connect the load bar cables to the TWR-
   For Wireless Load bars: The TWR-1 must be within 8-10m of the load bars. Refer to the Gallagher Load bars Instructions for further installation information.

A beep will sound indicating a successful connection/disconnection of the load bars.

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

Position the TWR

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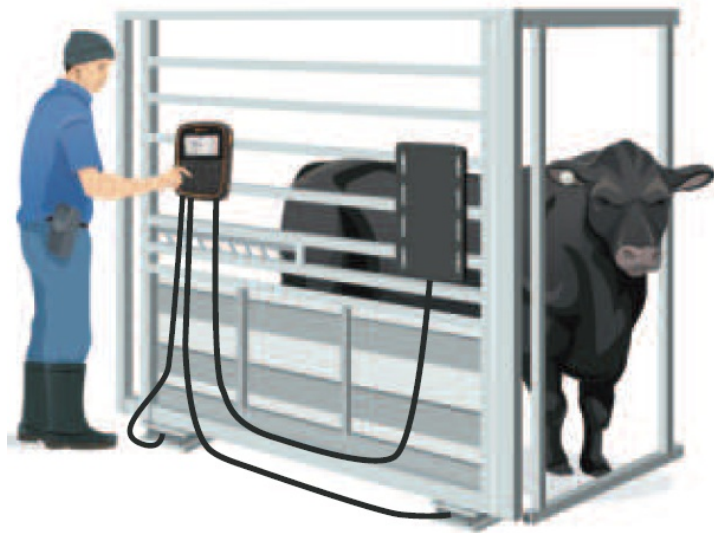
Installing the Antenna Panel

The TWR-1 has an internal reader, that when connected to a Gallagher Antenna panel will capture the Electronic ID tag data.

To weigh animals in a crush, you will need:

- Gallagher Antenna Panel kit
- 4m Antenna Extension Cable G05600 or 6m Antenna Extension Cable G05602

Note: A short adapter cable G05601 may be required on early versions of the Sheep Auto Drafter made prior to 2018.
To mount your Antenna panel, refer to the instructions included with the panel.

Important: Use the defined mounting holes, because drilling through the Antenna Panel will damage the antenna.

Attaching the TWR-1 to the Antenna Panel

1. Ensure the TWR-1 is turned
2. On the Antenna Panel, unscrew the Amphenol connector locking nut from the Amphenol socket and pull it down to unplug from the Antenna Panel.
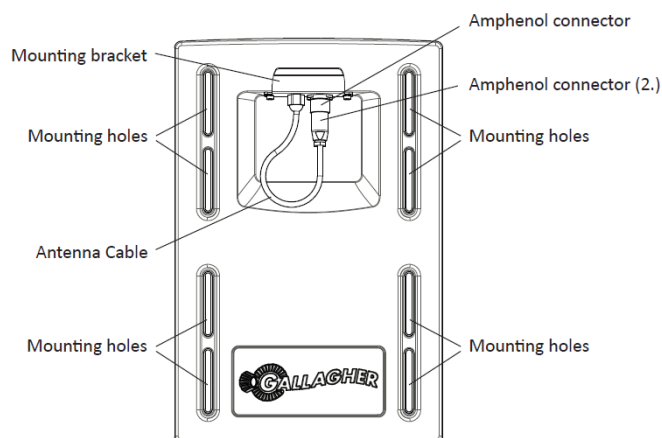
3. Connect the extension cable to the Amphenol connector and tighten, then connect the other end of the extension cable to the Antenna connector on the base of the TWR-1.
4. Tighten the locking

5. Refer to Connecting Equipment to the TWR-1 (p. 8) to complete the EID Reader connection on the TWR-1.

FIRST TIME START-UP

The first time the TWR-1 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.

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 TWR-1 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 TWR-1 functions, as an alternative to the touch screen.

Auto Shutdown

When the TWR-1 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 TWR-1 will not shutdown after the inactivity period. The screen will remain active.

CONNECTING EQUIPMENT TO THE TWR-1

Connecting to Wireless Load bars

1. On the TWR-1, tap Settings > Equipment Connections > Load bars > Wireless.
2. The TWR-1 will search for the When the load bars have been located, tap to select them from the list, then tap Connect.
   Note: As per the Wireless Load bar 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 TWR-1. Once completed, tap Done.
4. Create a new session, by tapping New > Quick Start. The current weight will display as 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 load bars will disconnect as TWR-1 goes into sleep mode. Press **Power** button and go to the Weigh screen to re-connect.

Connecting an EID Reader

- The TWR-1 internal reader can be used with or without load bars To use the internal reader, you must first connect the antenna panel. Refer to Attaching the TWR-1 to the Antenna panel (p. 6).
- A Hand-held EID Reader or permanent reader can be connected to the TWR-1 by either a serial cable or via Bluetooth®.

1. If using a hand-held reader or permanent reader, turn **On** the EID
2. For all readers, turn On the TWR-
3. On the TWR-1, tap Settings > Equipment Connections > EID Reader.
4. Select how the Reader is being This will be by Bluetooth, Serial cable, USB or using the internal reader (Panel).

If using the internal reader, a successful connection will show as in the footer bar.
Note: A mini serial adapter is included with the TWR-1 if a female serial connection is required.

Important: You can also connect to your TWR-1 by initiating a Bluetooth® enabled connection from your reader. A pass-code of "0000" may be required to complete this connection.

Refer to Bluetooth – Connect EID Reader in the TWR-1 On-screen Help or your EID Reader User Manual for further information on pairing the reader.

Connecting to a Drafter/Sorter

To connect the TWR-1 to a drafter, use the data cables supplied with your drafter. Refer to your Drafter User Manual for more information.

1. Turn On the TWR-
2. On the TWR-1, tap Settings > Equipment Connections > Drafter.
3. Specify the type of drafter that is being connected, to complete the

If your drafter is not listed, tap Create Custom and follow the configuration wizard 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 weighing 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
   Note: To set up and use templates, refer to the TWR-1 On-board Help.

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

3. Load the animal onto the platform

4. If using the internal reader, the animal's Electronic ID will be scanned, or you can scan with a hand-held reader and record the animal's Visual Tag

   Note: The internal reader will only read a tag when loadbars are connected and weight is detected on the weighing platform.

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

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

7. 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.

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 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 This can be altered in the connected load bar settings.

Reading tags with the Internal Reader

When the internal reader is connected it will display as in the screen footer.

- If no load bars are detected, the internal reader will always be active, ready to read a tag and will display as .
- If load bars are connected, the footer will display until a weight is detected on the

The symbol will then change to , as it reads the tag. The internal reader will go in and out of active mode as it detects weight on the weighing platform.

Session Options
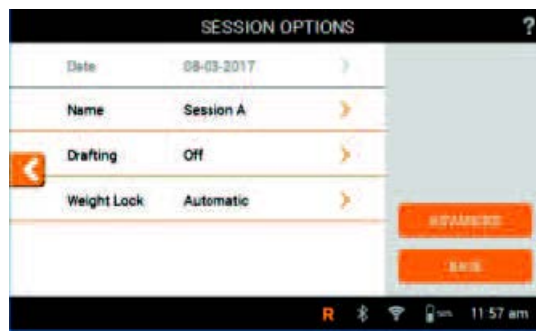
The Session Options menu is used to configure settings for the current session.
From this screen, tap the required option to change the session name, turn drafting On or Off, change the weight lock mode and configure Advanced settings.
Tap Save to keep any changes.
Note: Use the On Screen Help for step by step information to set up drafting a or to configure the Advanced settings.

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

Tap to view weight range of animals.

To view information about an individual animal weighed; tap

To view information about an individual animal weighed; tap
Tap an animal VID to view this animal on the Weigh screen.

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.

- On the TWR-1, ensure Wi-Fi is connected and press the Synchronize icon on the Home

  Note: The first time you sync data from the TWR-1 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 TWR-1 or in Gallagher Animal Performance, will be After syncing, the same data will be present on the TWR-1 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/amc/dashboard**

CARE AND MAINTENANCE

The TWR-1 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 TWR-1 in good condition.

- Do not submerge the TWR-1 in any
- Store in a cool, dry Avoid storing in direct sunlight.
- After use, clean with a damp Take care not to scratch the display.

It is important to update the TWR-1 software to ensure you have the latest enhancements and bug fixes. The TWR-1 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.
If the TWR-1 can't be connected to Wi-Fi, use the Gallagher Animal Performance app on your PC.
https://am.app.gallagher.com/amc/dashboard.

1. Select Software and Download the file.
2. From your Downloads folder, copy the file to a USB flash
3. While the TWR-1 is off, insert the USB flash drive, turn on the TWR-1 and follow the onscreen instructions.

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 licenceexempt 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 isotopically 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
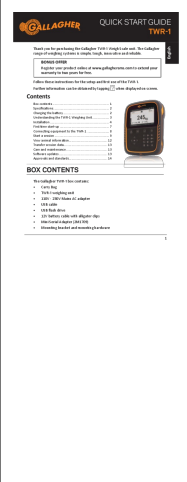
type, are strictly prohibited for use with this device.

Antenna Types:

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

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Documents / Resources

GALLAGHER TWR-1 APS Weighing Computer with Data Collector [pdf] User Guide
TWR-1 APS Weighing Computer with Data Collector, TWR-1, TWR-1 Data Collector, APS Weighing Computer with Data Collector, APS Weighing, APS Weighing Computer, Computer, Computer with Data Collector, Data Collector

References

- 🌐 **Animal Performance**
- 🌐 **Gallagher Group Limited**
- 🌐 **Animal Performance**