# **SmartScale 300**

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SmartScale 300

**User Manual** 

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# Introduction

Thank you for purchasing the SmartScale 300 Scale. Gallagher has been making agricultural weighing equipment for over 60 years and in that time has earned a reputation for quality equipment that withstands our tough agricultural conditions.

The SmartScale range of weighing systems is simple, tough, innovative and reliable.

All Scale's in the Gallagher range can be matched to a choice of loadbar systems, as well as a range of platforms and crates to make an accurate and reliable weighing system.

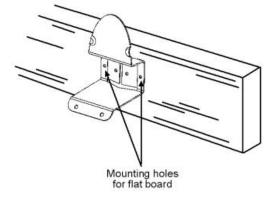
Although designed specifically for agriculture, the SmartScale range is also suited to many industrial applications.

# Installation

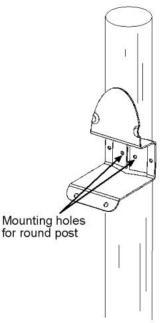
## Installing the Scale bracket

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

To mount the bracket on a flat vertical surface, for example a square post or board, use the outer holes.



To mount the bracket on a round post, use the inner holes.



Don't mount the Scale bracket on the weighing crate or chute.

## Installing the loadbars

To install the loadbars follow these steps.

- 1. Bolt the platform to the loadbars.
- 2. Ensure the platform is placed on a flat and level surface. Make sure it is not touching any rails or gates.
- 3. Either bolt the loadbars to the concrete pad or locate them on studs set into the concrete. This will prevent the platform from moving during the weighing session.

## Installing the Scale

The Scale can be placed on a flat surface or mounted on the Scale bracket supplied.

Position the Scale;

- 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)
- in a well-lit area.

## **Power and batteries**

During a weighing session, the Scale can be powered by its internal battery alone or by its internal battery and either the battery charger or an external 12 volt battery.

The battery charger connects between an AC outlet and the Scale.

If either the battery charger or an external 12 volt battery is connected to the Scale, the Scale's internal battery will be charged while the Scale is in use.

For optimum performance, switch off the Scale and charge its internal battery for at least five hours. When fully charged, the internal battery on its own will power the Scale continuously for a minimum of eight hours. Battery life may be reduced if the Scale is being used to power an Electronic ID reader.

## Charging the battery

The battery in the Scale can be recharged using either a battery charger or an external 12 volt battery.

Recharging the battery will take up to five hours depending on the level of charge already in the battery. The Scale can be in use or can be switched off while the battery is being charged.

## Using the battery charger

To charge the battery using the battery charger, follow these steps.

1. Connect the lead between the battery charger and the Scale.

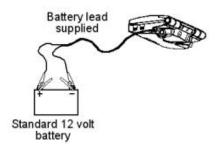


- 2. Plug the battery charger into an AC outlet and switch on.
- 3. Open the Scale case and make sure the battery charge icon on the main screen is flashing. This indicates that the battery is charging and will be displayed whether the Scale is turned on or off.

## Using an external 12 volt battery

To charge the Scale's internal battery using an external 12 volt battery, follow these steps.

- 1. Connect the supplied black and red battery leads to the Scale.
- 2. Connect the other end of the battery leads to the 12 volt battery.



Connect the **Red** clip to the **Positive** terminal

Connect the Black clip to the Negative terminal

3. Open the Scale case and make sure the battery charge icon on the main screen is flashing. This indicates that the battery is charging and will be displayed whether the Scale is turned on or off.

## **Battery charge status**

The battery icon displays in the bottom left corner of the Scale's upper screen.

It is important to note that the battery icon will only ever show the actual amount of charge left in the battery when the Scale is turned on and disconnected from external power.

Fully
Charged
Battery Icon bars are all displayed constantly.

Partially
Charged
Battery Icon shows first four bars constantly.

No Battery Icon bars are displayed.

When the Scale is connected to the external power supply the battery icon will display the charging status.

Charging Battery Icon shows all the bars constantly filling and then disappearing.

Topping Up

Battery Icon shows the first four bars constantly full and the remainder filling and then disappearing

then disappearing.

Trickle Battery Icon shows only one empty bar that is constantly travelling the length of the

full Icon.

## Low battery warning

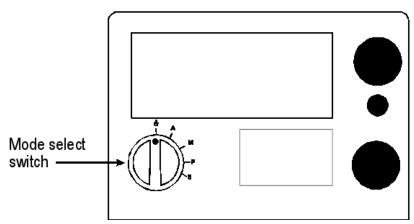
When the charge remaining in the battery drops to a very low level, the Scale will beep and the battery charge icon will start to flash. At this stage, about 15 minutes remain before the Scale shuts down.

### Low voltage shutdown

When the battery charge drops to a critical level, the Scale will shut down. At this stage it is necessary to recharge the battery.

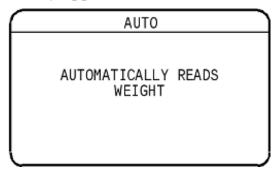
## The mode select switch

The Scale can operate in three weighing modes and a setup mode. The mode select switch is located on the left hand side of the Scale.



The mode select switch has five positions: **O**, **A**, **M**, **F** and **S**. Immediately after you turn the switch to any position except **O**, explanatory information will display on the lower of the two Scale screens. The explanatory information will display only for a few seconds; after it disappears, the screen displays information relevant to the selected option.

- **b** This position turns the Scale off.
- A This position selects automatic weighing. After the mode select switch is first turned to A, the following information briefly appears.



Automatic weighing is covered under Weighing animals - automatic or manual modes.

**M** This position selects manual weighing. After the mode select switch is first turned to **M**, the following information briefly appears.

MANUAL

PRESS GREEN KEY TO ADD TO STATS

Manual weighing is covered under Weighing animals - automatic or manual modes.

**F** This position selects static load weighing. After the mode select switch is first turned to **F**, the following information briefly appears.

SMALL LOAD
PRESS GREEN KEY
TO ADD TO STATS

Manual weighing is covered under *Weighing static loads - fine mode* (p 28).

**S** This position accesses the setup options. After the mode select switch is first turned to **S**, the following information briefly appears.

SET UP

CONFIGURE SCALES

Version 3.45.07 NZ/AU

The software version used by the Scale is also displayed. Setup options are covered under *Setup*.

### Note:

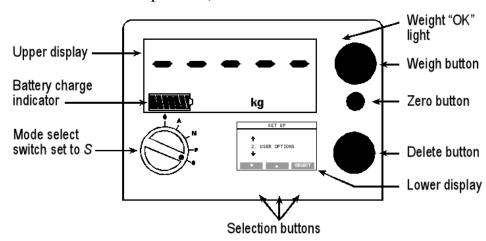
The software version shown above may be different from that used in your Scale.

# Setup

The setup menu contains four options:

- **1. DRAFT MENU** turns Drafting on or off.
- **2. USER OPTIONS** selects a unit of weight measurement and enables live printing.
- **3. COMMUNICATIONS** sets up a connection to a device plugged into the Scale's communications port.
- **4. SELECT COUNTRY** for a specific country, sets a language, country-specific terminology and other option defaults.

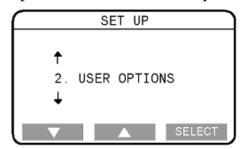
To access the setup menu, turn the mode select switch to **S**.



The setup menu displays on the lower of the two Scale screens. Press the buttons directly below this screen to select menu options.

## Selecting a setup option

When you turn the mode select switch to **S**, one of the setup menu options described on the previous page will display.



The setup menu items are numbered from 1 to 4.

Press the button to move to the previous setup menu item.

Press the button to move to the next setup menu item.

For example, to move from **2. USER OPTIONS** to

3. COMMUNICATIONS press

To move from **3. COMMUNICATIONS** to **2. USER OPTIONS** press

Press SELECT to select the currently displayed item.

For more information about each of the setup menu items, refer to the following sections.

## **Drafting**

The Draft Menu option lets you turn Drafting on or off and set a drafting limit.

## **Turning Drafting on or off**

To turn Drafting on or off, follow these steps.

- 1. Select **1. DRAFT MENU** from the setup menu.
- 2. Depending on how the Scale was previously set up, either the Drafting Off or the Two Way Drafting screen will display.

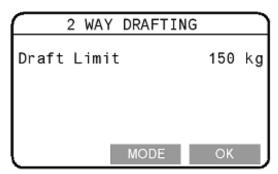


- 3. Depending on the screen displayed, do one of the following.
  - If the Drafting Off screen appears and you want to turn Drafting on, press MODE, then press twice.
  - If the Two Way Drafting screen appears and you want to turn Drafting off, press MODE, then press OK.
- 4. After you press the button the final time, you will be returned to the setup menu.

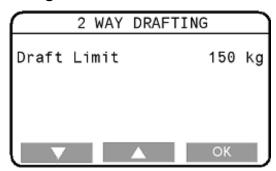
## Changing the drafting limit

To change the drafting limit, follow these steps.

- 1. Select **1. DRAFT MENU** from the setup menu.
- 2. If the Drafting Off screen displays, press the MODE button.
- 3. The current drafting limit will display on a screen that looks similar to that below.



4. Press the button to enter the edit mode. The screen will change to look like that below.

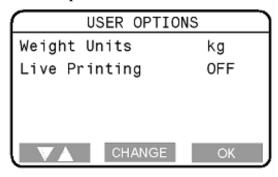


- 5. Press the or buttons repeatedly to change the drafting limit one step at a time. If you press and hold down either button, the limit will change rapidly.
- 6. Press to save the currently-displayed drafting limit and return to the setup menu.

## **User options**

The User Options screen lets you select the unit of measurement that you want to use when weighing animals. You can also turn live printing on or off.

To display the User Options screen, select **2. USER OPTIONS** from the setup menu.



## Changing a user option

Press the button to select the option you want to edit, then press CHANGE.

Refer to the sections below for more information on each of the User Options.

Press to save the displayed user options and return to the setup menu.

## Weight units

You can specify whether the Scale uses kilograms (kg) or pounds (lb).

### Live printing

When Live Printing is turned on, the Scale will print the measurement it makes each time it captures a weight. Refer to *Printing* (p 30) for more information.

Live Printing will only occur if you have connected the SmartScale printer to the Scale and set the port to Printer as described in *Communications* (p 14).

### Note:

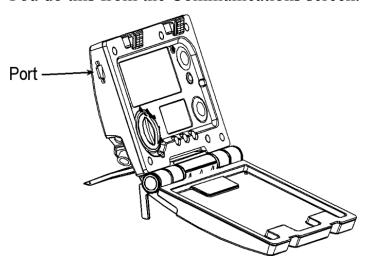
This feature will not work with a standard PC printer.

## **Communications**

You can connect a printer to the Scale. Optionally, if you have selected the NZ/AU country option, you can connect the Scale to a device that can respond to SmartScale protocols.

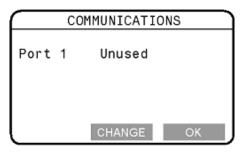
Connections are made to the port located on the upper left hand side edge of the Scale.

If you attach a device to the port, you must configure the port to suit. You do this from the Communications screen.



To display the Communications screen, select

**3. COMMUNICATIONS** from the setup menu.



To change the port setting, follow these steps.

- 1. Press the CHANGE button repeatedly until the required option is selected.
- 2. Press to save the setting and return to the setup menu.

Options are:

**Unused** The port is unused. This is the default option.

**Printer** The port is connected to a SmartScale printer.

This option prints weights and statistics during a

session.

**SmartScale** (This option will only appear when your country

selection is **NZ/AU**. See *Select country* (p 15).)

The port is connected to a device that can respond to SmartScale protocols. When this option is enabled, the port transmits weight information

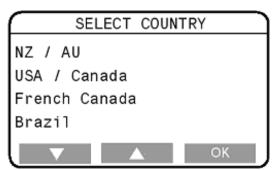
continuously.

## **Select country**

From the Select Country screen you chose the country in which the Scale will be used. Selecting a country changes the language and sets some country-specific terminology and options.

To display the Select Country screen, chose

**4. SELECT COUNTRY** from the setup menu.



To change the country, follow these steps.

- 1. Press the or button repeatedly to select the required country.
- 2. Press OK

# **About weighing**

The Scale has three weighing modes: Automatic, Manual and Fine.

The Automatic and Manual weighing modes are optimised for weighing live animals. The Fine mode is optimised for weighing static objects.

## The Scales measurement process

### **Automatic and Manual modes**

The weight measurement process starts after an animal has entered the weighing crate. As the animal moves about, the weighing platform transmits to the Scale a stream of changing weight values. On the Scale you can see the weight display change as the values are received.

The Scale samples these values until it has received enough information to calculate the animal's static weight. The calculated weight is called the captured weight.

After capture, the weight display remains frozen at the value of the captured weight even though the animal may continue to move about.

The time taken to make the analysis depends on the vigour of movement of the animal being weighed. It takes longer for the Scale to capture the weight of an animal that is agitated compared to one that is calm.

### Fine mode

The Scale continuously updates the weight recorded.

## **Zero tracking**

As animals pass through the weighing crate, an accumulation of mud and dung may build up on the weighing platform. The Scale can compensate for the weight of this accumulation by subtracting it from the total weight. The automatic subtraction of the residual weight from the total weight is called zero tracking.

Zero tracking ensures that the Scale captures the animal's weight and not the mess left on the platform.

The way zero tracking is initiated depends on the weighing mode.

### Automatic and manual modes

In the Automatic and Manual weighing modes, zero tracking is automatically implemented if, after the animal leaves the weighing platform, the residual weight is within a defined zero tracking range.

- If the residual weight is within the defined range, the displays.
- If the residual weight is outside the defined range, the icon does not display.

To manually compensate for the residue, press the blue zero button. The ZERO icon displays.

During a weighing session, if the Scale consistently does not restore to zero, check that there are no obstructions under or around the platform or crate.

### Fine mode

In the Fine weighing mode, automatic zero tracking is disabled.

The **ZERO** icon does not display in the Fine weighing mode.

## Weighing modes

### **Automatic**

Automatic mode is recommended for yards that allow a smooth flow of animals across the weighing platform.

In Automatic mode, the Scale automatically starts the weight measurement process as soon as the animal steps onto the platform. After the weight has been captured, the Scale beeps and displays the captured weight. The captured weight continues to display until the next animal steps onto the platform.

After the animal leaves the platform, the Scale attempts to compensate for the weight of any accumulation of mud or dung left on the platform. If it succeeds, the Scale displays a zero icon. If it does not you can manually restore zero by pressing the blue zero button.

### **Manual**

Manual mode is recommended for yards that do not allow a smooth flow of animals across the weighing platform or where the animals are restless. This mode allows the operator to decide when the measurement is made.

In manual mode, the operator presses the green weigh button to start the weight measurement process. After the weight has been captured, the Scale beeps and displays the captured weight. The captured weight continues to display until the next animal steps onto the platform.

After the animal leaves the platform, the Scale attempts to compensate for the weight of any accumulation of mud or dung left on the platform. If it succeeds, the Scale displays a zero icon. If it does not you can manually restore zero by pressing the blue zero button.

### **Fine**

Fine mode is recommended for weighing small static loads such as fleeces or produce.

In Fine mode, the Scale's weight display varies as objects are placed on and removed from the weighing platform.

If a weight measurement is to be added to the statistics, the operator presses the green weigh button. After the weight has been captured, the statistics are updated but the displayed weight is not frozen.

In Fine mode, automatic zero tracking is switched off, the Scale does not automatically compensate for the weight of small objects left on the platform after the weighed item has been removed. This means that if objects are left on the platform after a measurement, the weight indication will show their weight.

If you want to make a net-weight measurement of contained objects, you can have the Scale compensate for the weight of the container. To do this you would place the empty container on the weighing platform and press the blue zero button. If you then fill the container, the weight indication will be that of the container's contents.

### Note:

In Fine mode, after the blue zero button has been pressed, the weight indication shows zero but the ZERO icon does not display.

## **About statistics**

When the Scale is in the Automatic, Manual or Fine weighing mode, the lower screen displays statistics of the current weighing session. The way statistics are displayed depends on whether Drafting is turned on or off.

## **Draft statistics**

If Drafting is turned on and you are using Automatic or Manual weighing modes, the Drafting Stats screen will display information similar to that shown below.

DRA	FT STAT	S [kg]	
Limit	300		
	Low	High	
Number	6	8	
Average	292	314	
Total	1753	2508	
l	CLEAR		

In the example above, the drafting limit was set to 300 kg. Six animals weighed below 300 kg. These had an average weight of 292 kg and a total weight of 1753 kg. Eight animals weighed 300 kg or more. These had an average weight of 314 kg and a total weight of 2508 kg.

# Weight statistics

If Drafting is turned off or you are weighing in Fine mode, the screen will display information similar to that shown below.

WEIGHT	STATS	[kg]
Number	21	
Average	286	
Total	6006	
Lowest	257	
Highest	341	_
	CLEAR	

In the example above, 21 animals or objects were weighed. The average weight was 286 kg, the total weight was 6006 kg, the lowest measurement was 257 kg and the highest measurement was 341 kg.

## Deleting a weight from the statistics

In the Automatic weighing mode, statistics are updated each time the Scale captures a weight. In the Manual or Fine modes, a weight is captured and the statistics updated only if the operator presses the green button.

You can delete a captured weight from the statistics at two stages during a weighing session;

- while the animal or static load is still supported by the platform; or
- immediately after the animal has stepped off the platform or the static load has been removed from the platform.

If you delete a weight from the statistics while the animal or static load is still supported by the platform, you can also re-weigh by pressing the green weigh button.

### **Animals**

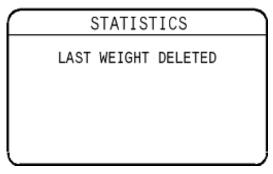
### Delete the weight just after the animal has left the platform

This feature is available when the Scale is set to either the Automatic or Manual mode.

After the weighed animal has left the platform and before the next animal steps onto the platform, you have an opportunity to delete from the statistics the weight just captured.

To delete the weight, press the red delete button.

The last captured weight will be removed from the statistics and the lower screen will briefly display the following message.



### Note:

You can only delete the last weight captured from the statistics. Weights captured prior to the last cannot be removed by pressing the delete button again.

### Static loads

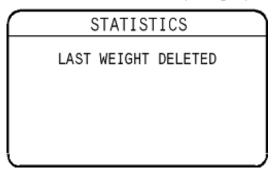
# Delete the weight after the load has been removed from the platform

This feature is available when the Scale is set to the Fine mode.

After the static load has been removed from the platform and before another load is placed on the platform, you have an opportunity to delete from the statistics the weight just captured.

To delete the weight, press the red delete button.

The last captured weight will be removed from the statistics and the lower screen will briefly display the following message.



### Note:

You can only delete the last weight captured from the statistics. Weights captured prior to the last cannot be removed by pressing the delete button again.

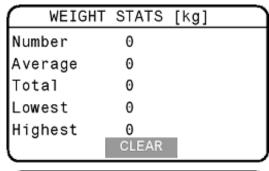
## **Clearing the statistics**

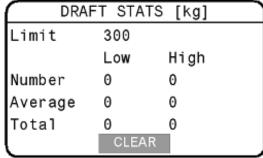
If you want to clear the statistics, follow these steps.

1. Set the mode select switch to the Automatic, Manual or Fine weighing mode.

2. Press the **CLEAR** button.

After you press the CLEAR button, all values will be set to zero and the lower screen will display as shown in the relevant illustration below.



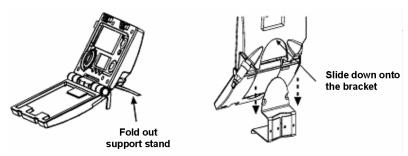


**Note**: Once the statistics have been cleared from the Scale they cannot be recovered.

# Before you begin weighing

1. Release the catches on the front of the Scale and open the case.

2. Place the Scale on a flat surface or clip it onto the Scale bracket.



- 3. Connect the leads from both loadbars to the Scale.
- 4. If required, connect to an AC outlet via the battery charger or connect to a 12 volt battery. If you are not connecting to an external power source, the Scale's internal battery should be fully charged. Refer to *Charging the battery* (p 4).
- 5. To change or check the setup options, turn the mode select switch **S** to display the setup menu.

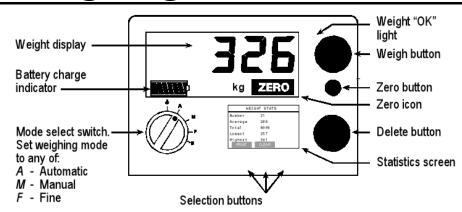
You can use the setup menu to:

- turn on Drafting, if you require it, and set the drafting limit.
- set up a connection to a SmartScale printer.

Refer to Setup (p 9), if you need more information.

You are now ready to start a weighing session.

# The weighing session



# Weighing animals - automatic or manual modes

At all times during the weighing session, ensure that the underside of the platform is kept free of dirt and stones.

- 1. Select the weighing mode that you want to use by turning the mode select switch to **A** (Automatic), or **M** (Manual).
- 2. If you want to reset the statistics display to zero, press the button.

For more information refer to *Clearing the statistics* (p 24).

- 3. The Scale attempts to compensate for the weight of any accumulation of mud or dung left on the platform. If it is successful, the ZERO icon displays. If the icon does not display, press the blue Zero button.
- 4. Load the animal onto the platform. Ensure the animal is entirely supported by the platform no hooves on the ground and that no object is restraining or resting on the animal.
- 5. The Scale captures the weight in a way that depends on the weighing mode selected.
  - **Automatic Mode** After the animal has become calm, the Scale automatically captures the weight. The time taken to capture the weight depends on the movement of the animal.
  - **Manual Mode** Press the green weigh button. After the animal has become calm, the Scale captures the weight. The time taken to capture the weight varies depending on the movement of the animal.

6. Once the Scale locks onto the weight, the following events occur.

- The Scale beeps.
- The weight measurement displays in the upper screen.
- The red light glows.
- The ok icon displays in the upper screen.

If Drafting is turned on, the upper screen displays H (High) or L (Low), indicating the Drafting category into which the measurement falls.

- 7. If the weight has locked on, but you want to re-weigh the animal, press the green **Weigh** button. The Scale re-weighs the animal and locks the weight again. The new weight replaces the original weight and the statistics are updated.
- 8. Record the weight.
- 9. Move the animal off the platform. After the animal has left the platform, the following events occur.
  - The red light goes out.
  - The ok icon disappears from the upper screen.
  - The statistics screen updates.

The weight measurement continues to display in the upper screen until the next animal steps onto the platform.

10. If you want to delete the weight just captured, follow the procedure set out under *Delete the weight just after the animal has left the platform* (p 22).

## Weighing static loads - fine mode

- 1. Turn the mode select switch to **F** (Fine mode).
- 2. If you want to reset the statistics display to zero, press the button.

For more information refer to *Clearing the statistics* (p 24).

3. Check that the weight displayed is zero. If it is not, check that no unwanted objects are resting on the weighing platform, then press the blue zero button.

### Note:

The **ZERO** icon does not display in Fine mode.

- 4. Place the load onto the platform.
- 5. Record the weight.
- 6. Press the green weigh button if you want to add the weight to the statistics.
- 7. If the weight has locked on, but you want to re-weigh the load, press the green **Weigh** button. The Scale re-weighs the load and locks the weight again. The new weight replaces the original weight and the statistics are updated.

## Weight-on-scale memory

The Scale remembers the weight on the display at the time it is switched off. This weight is restored if the same weight is on the platform at the time the Scale is switched back on.

For example, if you are using Fine mode to weigh wool in a bale on a wool press, you can part-fill the bale and then turn the Scale off at the end of the day. Provided the load is still on the Scale, this weight is remembered when you return the following day and switch the it back on. As you add to the bale, the weight increases from the remembered weight at the end of the previous day.

## At the end of the weighing session

- 1. Switch the Scale off by turning the mode select switch to the oposition.
- 2. Disconnect the loadbar cables.
- 3. Fit the protective caps to the loadbar cables.
- 4. Fit the protective caps to the Scale.

# **Printing**

A SmartScale printer can be attached to the SmartScale 300. If the SmartScale printer is connected during a weighing session, you can configure the Scale to print each animal's weight automatically. You can also print the statistics at any time during or after the session.

The SmartScale printer has its own internal rechargeable battery. The battery can be recharged using the battery charger supplied with the printer.

### Note:

You can only use a SmartScale printer with the SmartScale 300 Scale.

## Printing weights during a weighing session

To print each weight during a weighing session, follow these steps.

- 1. Connect the printer cable to the port on the Scale.
- 2. Turn the mode select switch to **S** to display the SET UP menu.
- 3. Select **COMMUNICATIONS**.
- 4. Ensure the port is set to **Printer**.
- 5. Press ok to return to the SET UP menu.
- **6.** Select **USER OPTION** and set **Live Printing** to **ON**.
- 7. Press ok to return to the SET UP menu.
- 8. Select the required weighing mode by turning the mode select switch to **A** (Automatic), **M** (Manual) or **F** (Fine).
- 9. Each time the Scale captures a weight it will be printed. If Drafting is turned on, the drafting category (H-high or L-low) will be printed beside each weight.

# Printing statistics during a weighing session

To print statistics during a weighing session, follow these steps.

- 1. Connect the printer cable to the port on the Scale.
- 2. Turn the mode select switch to **S** to display the setup menu.
- 3. Select **3. COMMUNICATIONS**.
- 4. Ensure the port is set to **Printer**.
- 5. Press ok to return to the setup menu.
- 6. Select the required weighing mode by turning the mode select switch to **A** (Automatic), **M** (Manual) or **F** (Fine).
- 7. Press the PRINT button on the Weight Stats or Drafting Stats screen.

The statistics on the Weight Stats or Drafting Stats screen will be printed.

WEIGHT	STATS [kg]	- 7
Number	21	
Average	572	
Total	12012	
Lowest	541	
Highest	682	
PRINT	CLEAR	

# **Care and maintenance**

The SmartScale 300 is a tough and reliable product designed for use in typical livestock environments. However proper care and maintenance can extend its life.

Listed below are guidelines for keeping the SmartScale Scale in good condition.

- Don't submerge the Scale in any liquid.
- Store the Scale in a cool, dry place. Avoid storing it in direct sunlight unless it is housed in the purpose-built outdoor housing.
- After use, clean the Scale with a damp cloth. Take care not to scratch the display.
- Fit the connector caps to keep the connections clean and dry.

# Loadbar and platform options

It is recommended that you use Gallagher loadbars with the SmartScale 300.

The SmartScale 300 will recognise most commonly available loadbar sets. To connect to some loadbar sets, adapter cables may be required.

If you are not using Gallagher loadbars, a calibration check will be required prior to first use.

## Gallagher Standard Loadbars

### **Features**

- 2000 kg weighing capacity Available in 600mm (23") and 1000mm (39") lengths
- Tough rugged steel loadbars
- Bottom feet mounting holes extend beyond top covers for ease of bolting down
- Slotted top mounting holes fit all sizes of platforms and crushes
- 6m (18') long tough loadbar cables fitted with high quality connectors
- Fully waterproof
- No rubber mounts

Talk to your Gallagher dealer about the best platform and/or crate for your requirements.

## **Gallagher Heavy Duty Loadbars**

### **Features**

- 3500 kg weighing capacity
- 1000 mm (39") rugged steel loadbars
- Bottom feet mounting holes extend beyond top covers for ease of bolting down
- 6 m (18') long tough loadbar cables fitted with high quality connectors
- Fully waterproof
- No rubber mounts
- High capacity load cells withstand large shock loads
- Heavy steel chassis construction absorbs the harshest of impacts
- Set them and forget them for permanent installation under large crushes.

Talk to your Gallagher dealer about the best platform and/or crate for your requirements.

## Gallagher Super Heavy Duty Loadbars

### **Features**

- 4500 kg weighing capacity
- 1000 mm (39") rugged steel loadbars
- Bottom feet mounting holes extend beyond top covers for ease of bolting down
- 6m (18") long tough loadbar cables fitted with high quality connectors
- Fully waterproof
- No rubber mounts
- High capacity load cells withstand large shock loads
- Heavy steel chassis construction absorbs the harshest of impacts
- Set them and forget them for permanent installation under the largest crushes

Talk to your Gallagher dealer about the best platform and/or crate for your requirements.

# **Specifications**

## **SmartScale 300 dimensions**

Length232 mm $(9\frac{1}{4} \text{ inches})$ Width212 mm $(8\frac{1}{2} \text{ inches})$ Height90 mm $(3\frac{1}{2} \text{ inches})$ Weight $\approx 2 \text{ kg}$  $(\approx 4.4 \text{ pounds})$ 

## **General**

Operating Temperature -20° to 50° C

(-5° to 120° F)

Accuracy  $\pm 1\%$ 

Environmental IP67

protection rating

## **Weight increments**

For Gallagher Loadbar sets, the weight increments are preset as shown in the table. For other loadbar sets talk to your Gallagher dealer.

		Gallagher Heavy Duty
	Gallagher	Loadbars (3500 kg)
Weight Range	Standard	and
	Loadbars	Gallagher Super Heavy
	(2000  kg)	Duty Loadbars (4500 kg)

### **Automatic or Manual modes:**

0 - 50 kg	200 g increments	500 g increments
50 - 200 kg	500 g increments	500 g increments
200 - 500 kg	1 kg increments	1 kg increments
500 - 2000 kg	2 kg increments	2 kg increments
2000 - 4500 kg	Not Applicable	5 kg increments

### Fine mode:

0 - 50 kg	100 g increments	200 g increments
50 - 200 kg	500 g increments	500 g increments
200 - 500 kg	1 kg increments	1 kg increments
500 - 2000 kg	2 kg increments	2 kg increments
2000 - 4500 kg	Not Applicable	5 kg increments

# **Contact details**

The SmartScale range of products is distributed by the following companies:

### **NEW ZEALAND**

Gallagher Group Ltd, Private Bag 3026 Hamilton

### **UNITED KINGDOM**

Gallagher Power Fence<sup>TM</sup> (UK) Ltd, Unit 5, Eastboro Fields, Hemdale Business Park, Attleborough, Nuneaton CV11 6GL.

### **IRELAND**

Gallagher Power Fence Systems (IRL) Ltd, Kinsale Road, Cork

### **NORTHERN IRELAND**

Sam Nelson & Son, 16 Lower Ballinderry Road, Upper Ballinderry, Lisburn, Co. Antrim BT28 2JB.



### ONE YEAR WARRANTY

### REGISTER ONLINE AT www.gallagherams.com TO EXTEND YOUR WARRANTY TO TWO YEARS

FOR THIS PRODUCT FROM DATE OF PURCHASE

MODEL	SELLING DEALER STAMP
SERIAL NO	
DATE PURCHASED	

This product is guaranteed free from defects in material or workmanship for a period of one year from date of purchase by the end user. Gallagher will repair or replace at their option any faulty product returned to them or their Dealer within this time period. Freight/forwarding costs incurred by the Customer in the warranty process remain the responsibility of the Customer.

This warranty does not cover damage (including subsequent corrosive damage) due to:

- Unauthorised repairs
- Modifications
- Failure to follow care and maintenance guidelines described in the User Manual
- Physical Mishandling
- Lightning Strike
- Floods, fires or acts of God
- Use of an arc welder on loadbars or equipment or steelwork attached to loadbars while a WeighScale is connected

Gallagher, their Distributors, and their Dealers accept no responsibility for the misuse of this product.

Gallagher, their Distributors, and their Dealers accept no responsibility for any accident caused subsequently to any tampering with or modification to or for the misuse of this product.

Gallagher, their Distributors, and their Dealers accept no liability for consequences and/or secondary

damages or losses of any kind sustained directly or indirectly, a result of failure or defect in any product, material, installation or service.

#### **AUSTRALIA**

Gallagher Australia Pty Ltd, 14 Somerton Park Drive, Campbellfield, Melbourne, Victoria, 3061

### **EUROPE**

Gallagher Europe Bv, Hekkum 9, 9774 TH, Adorp (Gn), Netherlands

### **IRELAND**

Gallagher Power Fence Systems (IRL), Kinsale Road, Cork

#### **NEW ZEALAND**

Gallagher Animal Management Systems, 181 Kahikatea Drive, Private Bag 3026, Hamilton 3240

#### **SOUTH AFRICA**

Rudd Products, Bush Willows, 24 Begonia Road, Kyalami Agricultural Holdings Kyalami, Johannesburg, Gauteng, 1684

### **USA / CANADA**

Gallagher USA Inc, 130 W 23rd Avenue, North Kansas City, MO 64116 Missouri

PLEASE READ INSTRUCTIONS CAREFULLY BEFORE USE. PLEASE COMPLETE DETAILS AND KEEP WITH YOUR RECEIPT — IT IS YOUR PROOF OF WARRANTY