

Span Calibration Guide

S3 Indicator

EziWeigh7

ID5000

Gallagher – TW1

Gallagher – W210

Gallagher – W310/W610/W810



REFERENCE	REFERENCE DESCRIPTION	Total Pages
Work Instruction	Span Calibration Guide	16
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1 INTRODUCTION

The information contained within this document should provide suitable instruction to allow any personnel to carry out span calibration of the following:

1. S3
2. EziWeigh7
3. ID 5000
4. Gallagher TW1
5. Gallagher W210/W310/W610/W810

2 CALIBRATION BACKGROUND INFORMATION

Span calibration uses test weights to calibrate the indicator to a specific set of load cell or load bars.

The known test weight which is used for calibration should be at least one third of the total capacity of the scale. Ideally a known test weight about equal in weight to the load or animal to be weighed is required.

During span calibration process the operator is required to set desired capacity, resolution of the scale and enter the amount of the test weight. The indicator will take two readings, one without the test weight on the platform and one with.



3 CALIBRATION PROCESS

This section details the procedure by which to calibrate the instruments.

3.1 S3 – Calibration


- 3.1.1 Download the MiHub Data Link app for your mobile device. Note the app is free to download.



The app symbol is

- 3.1.2 Connect the S3 indicator to your mobile device or computer
- 3.1.3 Select the S3 indicator from the list of device that may appear




- 3.1.4 Select  to open settings, and choose Span Calibration.
- 3.1.5 Follow the on screen step to complete the span Calibration.



3.2 EziWeigh7 – Calibration

- 3.2.1 Ensure that the load cells are tightly connected to EziWeigh7i indicator.



- 3.2.2 Press  to turn the indicator on.



3.2.3 Press ESC and MENU



buttons together.

Display will show



3.2.4 Press ENTER



to go into the Span Calibration menu.

Display will show



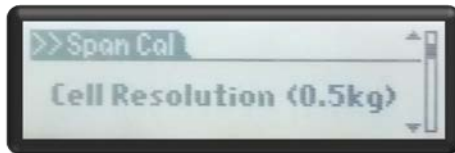
- 3.2.5 Type the desired capacity for the system (200.0kg) using numerical key pad and press ENTER to store.



- 3.2.6 Press down arrow.



Display will show



- 3.2.7 Set cell resolution to 0.5kg by pressing ENTER.



- 3.2.8 Press down arrow . Display will show the "Test Weight". By using numerical key pad type the actual test weight that will be used for calibration



and press ENTER to store. The weight should be at least one third of the total capacity of the scale or about equal to the typical loads that will be weighed, whichever is greater.





Display will show the test weight



3.2.9 Press down arrow.



Display will show



3.2.10 Ensure that there is no load on platform then



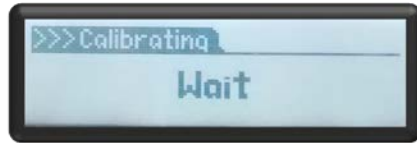
press Enter.

Wait until next instruction appears on the screen.





Display will show



3.2.11 Place the test load on platform and press ENTER.



Display will show



3.2.12 If the span calibration was successful the display will show "Done".



3.2.13 Press ESC button twice to exit the span calibration.



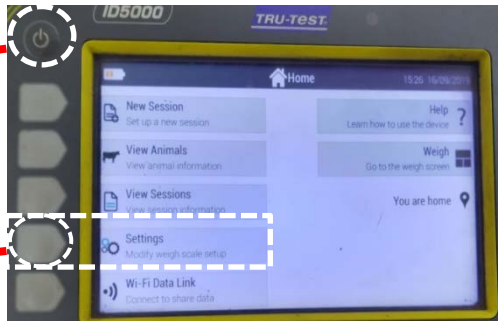
3.3 ID 5000 - Calibration

3.3.1 Screw the load bars connectors securely to the correct positions



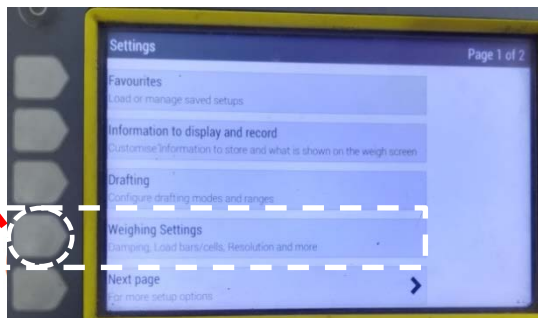
Load bar connectors

3.3.2 Turn on indicator with power button.

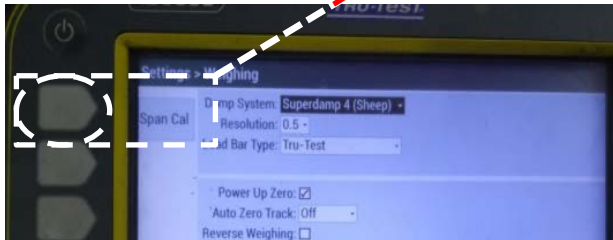


3.3.3 Start at the home screen, select the settings page, by using the grey button at the side.


3.3.4 Select Weighing settings, by using the grey button at the side

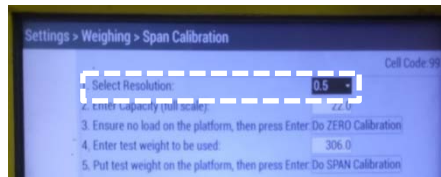


3.3.5 Select Span Cal, by using the grey button at the side.



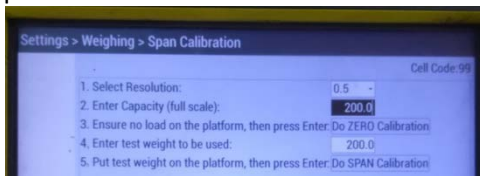
3.3.6 Select 0.5 resolution.

Press enter  to access the drop down box. Use down arrow to select 0.5 resolution.



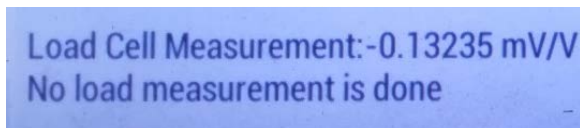
Press enter to confirm selection.

3.3.7 Enter capacity (full scale) of 200.0 using the keypad, press enter to confirm.

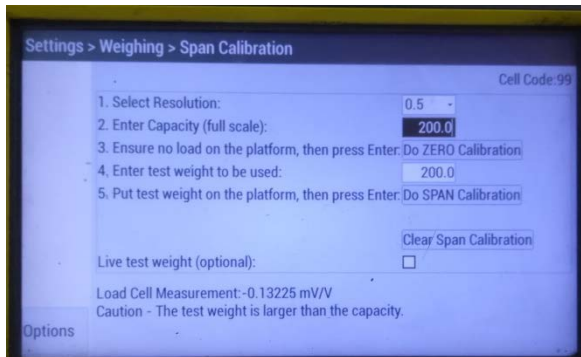


3.3.8 Carry out zero weight calibration. DO NOT touch weight scale while calibration is being carried out. Press enter to start calibration. Screen will display “No load measurement is done”

Screen display:



- 3.3.9 Enter the test weight into ID5000, add test weight to weigh scale, keeping central for best accuracy.



- 3.3.10 Press enter to start span calibration. DO NOT touch weigh scale while calibration is being carried out. Screen will display "Test weight measurement is done"

- 3.3.11 Remove weight when completed.

- 3.3.12 Return to weighing screen, using the back key



Test weigh scale with known weight to verify calibration.




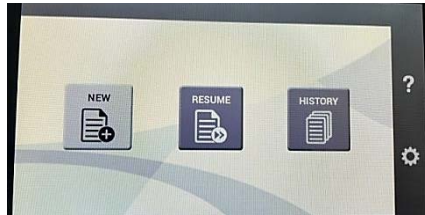
3.4 Gallagher TW1 – Calibration

3.4.1 Connect load bars to the Gallagher indicator connectors using Y piece Gallagher adaptor cable manufactured and supplied by Ritchie.

3.4.2 Turn on the indicator, using the power button.



3.4.3 Tap on the  icon to open settings menu.



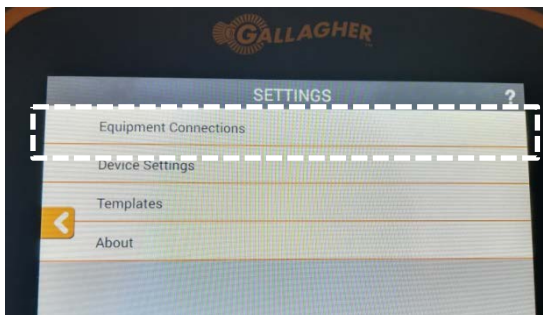
3.4.4 Tap Equipment Connections to enter the selected menu.

3.4.5 Tap the **“Loadbar name”** or select a **“Create Custom”** and follow indicator wizard

3.4.6 Tap **“Advanced”**

3.4.7 Tap **“Span”**

3.4.8 Follow the configuration wizard of the indicator



3.5 Gallagher W210 – Calibration

- 3.5.1 Ensure the load bars are connected to indicator using Y piece Gallagher adaptor cable manufactured and supplied by Ritchie. Ensure no load and is free from obstruction
- 3.5.2 Hold down **GREEN** and **BLUE** buttons at the same time. Turn the rotary knob from **OFF** to **FINE**.



Screen will show “**CAL**”

- 3.5.3 Check there is no load on the loadbars and press the **BLUE** button.
The **ZERO** icon will be displayed once zero load has been captured.
- 3.5.4 Add any known weight up to 200kg to the scale. Once the load is stable, press the **GREEN** button.

Screen will show calculated weight

- 3.5.5 Press the **GREEN** button to increase shown weight to known test weight. Press **BLUE** button to decrease shown weight. (*Adjustment in 1kg increments*)
- 3.5.6 Once display weight equals the know test weight, turn rotary knob from **FINE** to **AUTO**.

Display will read “**SAVE**”

- 3.5.7 Press the **GREEN** button to save the new span value
- 3.5.8 To exit the span calibration without saving the new value, turn the rotary knob to **OFF** before pressing the **GREEN** button.



3.6 Gallagher W310/W610/W810 – Calibration

3.6.1 Ensure the load bars are connected to indicator using Y piece Gallagher adaptor cable manufactured and supplied by Ritchie. Ensure no load and is free from obstruction

3.6.2 Turn the rotary knob to **SETUP**. Select **USER OPTIONS** using the soft keys.



3.6.3 When the user options screen is displayed carry out the following key sequence:

**WEIGH → DELETE → ZERO → ZERO →
DELETE → RIGHT HAND SOFT KEY**

3.6.4 The engineering option screen will display.

Select **“Change Span”** and press **“Select”**

3.6.5 For W610/W810 indicators choose **“RESPAN”** using soft key **F5**

3.6.6 Check that there is no load on the loadbars and press the **BLUE** button. The **ZERO** indicator will come on once the zero has been captured

3.6.7 Apply any known test load up to 200kg to the scale. Once the value has stabilised press the **GREEN** button. The calculated weight will display on the lower screen

3.6.8 Use the arrow key or key pad to adjust the displayed span weight to the known test weight. For the W310 use the **DIGIT** key to change the digit position in the span weight value.

3.6.9 Press soft key **F5** or **OK** to save the new span value

3.6.10 To exit the span calibration without saving the new value, turn the rotary knob out of **SETUP** before accepting the test weight value. The scale will default to normal operation without saving the new value.

