

# **Span Calibration Guide**

S3 Indicator EziWeigh5 EziWeigh7 ID5000 Gallagher – TW1 Gallagher – W210 Gallagher – W310/W610/W810

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Work Instruction	Span Calibration Gu	ide	28
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Document number R2019-10-01 Span Calibration Guide	
Revision	01
Page	2 of 28

# **REVISION HISTORY**

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Document number R2019-10-01	
Span Calibration Guide	
Revision	01
Page	3 of 28

# TABLE OF CONTENTS

1	INTR	ODUCTION	4
2	CALIE	BRATION BACKGROND INFORMATION	4
3	CALIE	BRATION PROCESS	5
	3.1	S3 – Calibration	5
	3.2	EziWeigh5 – Calibration	6
	3.3	EziWeigh7 – Calibration	17
	3.4	ID 5000 - Calibration	23
	3.5	Gallagher TW1 – Calibration	26
	3.6	Gallagher W210 – Calibration	27
	3.7	Gallagher W310/W610/W810 – Calibration	28



Document number R2019-10-01	
Span Calibration Guide	
Revision	01
Page	4 of 28

### 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. EziWeight5
- 3. EziWeigh7
- 4. ID 5000
- 5. Gallagher TW1
- 6. Gallagher W210/W310/W610/W810

## 2 CALIBRATION BACKGROND 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.



Document number R2019-10-01 Span Calibration Guide	
Revision	01
Page	5 of 28

### 3 CALIBRATION PROCESS

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

# 3.1 S3 – Calibration

3.1.4

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



to open settings, and choose Span Calibration.

3.1.5 Follow the on screen step to complete the span Calibration.



Document number R2019-10-01	
Span Calibration Guide	
Revision	01
Page	6 of 28

# 3.2 EziWeigh5 – Calibration

3.2.1 Ensure that the load cells are tightly connected to EziWeigh5 indicator.



3.2.2 Print and cut out template for keys position. Place template on the top of EziWeigh5 keybord. Press to turn the indicator on.







	Document number R2019-10-01 Span Calibration Guide	
	Revision	01
	Page	7 of 28
3.2.3 Press ESC and MENU buttons together.	SC MENU	
TRU-TOST.	Display will show 'SPAN.c	2



EW5

ENTER

3.2.4 Press ENTER

to go into the Span Calibration menu.



Document number R2019-10-01	
Span Calibration Guide	
Revision	01
Page	8 of 28



3.2.5 Press ENTER

Display will show





to see the current capacity. Type the desired capacity for the system



(200.0kg) using numerical key pad template and press ENTER to store.



Document number R2019-10-01	
Span Calibration Guide	
Revision	01
Page	9 of 28







3.2.6 Press down arrow.



Document number R2019-10-01	
Span Calibration Guide	
Revision	01
Page	10 of 28







3.2.7 Press ENTER



or down arrow.



Document number R2019-10-01	
Span Calibration Guide	
Revision	01
Page	11 of 28







3.2.8 Press ENTER



3.2.9 Press down arrow



Document number R2019-10-01	
Span Calibration Guide	
Revision	01
Page	12 of 28







3.2.10 Press enter

. Display will show the current 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.



Document number l Span Calibration Gu	R2019-10-01 ide
Revision	01
Page	13 of 28



#### 3.2.11 Press down arrow.



3.2.12 Ensure that there is no load on platform then press Enter. will show up on the screen.



Display will show



Wait until next instruction



Document number R2019-10-01	
Span Calibration Guide	
Revision	01
Page	14 of 28



3.2.13 The display will show 'LoAd.



ENTER

Place the test load on platform and press ENTER.

3.2.14 The display will show 'buSY for few seconds.



3.2.15 If the span calibration was successful the display will show 'donE".





Display will show 'buSY for few seconds



Document number R2019-10-01 Span Calibration Guide	
Revision	01
Page	15 of 28



3.2.16 Press ESC

button twice to exit the span calibration.



Document number R2019-10-01	
Span Calibration Guide	
Revision	01
Page	16 of 28





Document number R2019-10-01	
Span Calibration Guide	
Revision	01
Page	17 of 28

# 3.3 EziWeigh7 – Calibration

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



3.3.2 Press to turn the indicator on.





Document number R2019-10-01 Span Calibration Guide	
Revision	01
Page	18 of 28



# 3.3.3 Press ESC and MENU buttons together.





Document number R2019-10-01 Span Calibration Guide	
Revision	01
Page	19 of 28

3.3.5 Type the desired capacity for the system (200.0kg) using numerical key pad and press ENTER to





3.3.6 Press down arrow.



Display will show





3.3.7 Set cell resolution to 0.5kg by pressing ENTER.



3.3.8 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.



Document number R2019-10-01	
Span Calibration Guide	
Revision	01
Page	20 of 28





Document number R2019-10-01	
Span Calibration Guide	
Revision	01
Page	21 of 28



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3.3.11 Place the test load on platform and press ENTER.



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



Document number R2019-10-01		
Span Calibration Guide		
Revision	01	
Page	22 of 28	





3.3.13 Press ESC

button twice to exit the span calibration.



Document number R2019-10-01 Span Calibration Guide	
Revision	01
Page	23 of 28

# 3.4 ID 5000 - Calibration

3.4.1 Connect the load bars connector into the correct positons securely



Load bar connectors

- 3.4.2 Turn on indicator with power button
- 3.4.3 Start at the home screen, select the settings page, by using the grey button as the side
- 3.4.4 Select Weighing settings, by using the grey button as the side

ation to display and record

hing Settings

Page 1 of 2







Document number R2019-10-01 Span Calibration Guide	
Revision	01
Page	24 of 28

3.4.5 Select Span Cal, by using the grey button as the side.



3.4.6 Select 0.5 resolution. Press enter to access the drop down box. Use down arrow to select 0.5 resolution. Press entre to confirm selection.

Settings > Weighing > Span Calibration			
			Cell Code:99
	. Select Resolution:	0.5 -	
	2. Enter Capacity (full scale):	22.0	
	3. Ensure no load on the platform, then press Enter.	Do ZERO	Calibration
	4, Enter test weight to be used:	306.0	
	5. Put test weight on the platform, then press Enter.	Do SPAN	Calibration



- , press entre to confirm.
- 3.4.7 Entre capacity (full scale) of 200.0 using the keypad,



3.4.8 Carry out zero weight calibration. DO NOT touch weight scale while calibration is being carried out. Press entre to start calibration. Screen will display "No load measurement is done"

Load Cell Measurement:-0.13235 mV/V No load measurement is done



Document number R2019-10-01 Span Calibration Guide	
Revision	01
Page	25 of 28

## Screen display:

3.4.9 Entre the test weight into ID5000, add test weight to weigh scale, keeping central for best accuracy.



- 3.4.10 Press entre to start span calibration. DO NOT touch weigh scale while calibration is being carried out. Screen will display "Test weight measurement is done"
- 3.4.11 Remove weight when completed.
- . Test weigh scale with known weight to 3.4.12 Return to weighing screen, using the back key verify calibration.





			Document number R2019-10-01 Span Calibration Guide Revision	01
			Page	26 of 28
3.5	<b>Gall</b> 3.5.1 3.5.2 3.5.3		able able enu	26 of 28
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- 3.5.4 Tap Equipment Connections to enter the selected menu.
- 3.5.5 Tap the "Loadbar name" or select a "Create Custom" and follow indicator wizard
- 3.5.6 Tap "Advanced"
- 3.5.7 Tap "**Span**"
- 3.5.8 Follow the configuration wizard of the indicator





Document number R2019-10-01	
Span Calibration Guide	
Revision	01
Page	27 of 28

# 3.6 Gallagher W210 – 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 Hold down **GREEN** and **BLUE** buttons at the same time. Turn the rotary knob from **OFF** to **FINE**.

Screen will show "CAL"

3.6.3 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.

3.6.4 Add any known weight up to 200kg to the scale. Once the load is stable, press the **GREEN** button.

Screen will show calculated weight

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

## Display will read "SAVE"

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



Document number R2019-10-01	
Span Calibration Guide	
Revision	01
Page	28 of 28

# 3.7 Gallagher W310/W610/W810 – Calibration

- 3.7.1 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
- 3.7.2 Turn the rotary knob to **SETUP.** Select **USER OPTIONS** using the soft keys.
- 3.7.3 When the user options screen is displayed carry out the following key sequence:

WEIGH  $\rightarrow$  DELETE  $\rightarrow$  ZERO  $\rightarrow$  ZERO  $\rightarrow$ DELETE  $\rightarrow$  RIGHT HAND SOFT KEY



- 3.7.4 The engineering option screen will display. Select "Change Span" and press "Select"
- 3.7.5 For W610/W810 indicators choose "RESPAN" using soft key F5
- 3.7.6 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
- 3.7.7 Apply any known test load up to 200kg to the scale. Once the valve has stabilised press the **GREEN** button. The calculated weight will display on the lower screen
- 3.7.8 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 valve.
- 3.7.9 Press soft key F5 or OK to save the new span value
- 3.7.10 To exit the span calibration without saving the new valve, 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.

