

# **USER MANUAL** EziWeigh6

This user manual provides detailed instructions for installing and using your EziWeigh6 weigh scale indicator (the indicator). For more information about the EziWeigh6 indicator, see www.tru-test.com.

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#### FCC and ICES-003 Compliance

Pakuranga

New Zealand

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 of fland 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.

This Class B digital apparatus complies with Canadian ICES-003.

# Charging the internal battery

*Note:* Before using the indicator, ensure that the internal battery is fully charged.





Note: The battery indicator may not be entirely accurate when the indicator is being used in very cold conditions (below 5 °C / 40 °F).

## Installation

Note: Mount the indicator and secure the cables so they cannot be damaged by stock.

- 1 Install load bars under the platform on a firm, level surface (see Load Bar User Manual).
- 2 Mount the indicator bracket onto a flat surface (timber rails, concrete) or pipe-work.
- 3 Remove the dust caps on the load bar connectors. Connect the load bar cables to the indicator. The indicator automatically calibrates with Tru-Test load bars.
- 4 If required, connect the indicator to the mains power using the power/communication cable and the power adaptor.

Tip: Connect the dust caps together to keep out dirt and moisture. Dust caps should remain in place at all times when the indicator is not in use.

## Parts of the indicator



## Using the indicator interface

Press (MIN) to view the menu items. The top level of menus includes:

Statistics	View statistics for the current session, or for previously recorded sessions.
Clear last record	Delete the last record in the current session.
Sessions	Start a new session, view statistics for the current session or for previously recorded sessions, delete a session or delete all sessions.
Setups	Change indicator settings and enable extra features.

Press into a sub-menu or to select an option.

Press  $\bigtriangleup$  or  $\bigtriangledown$  to scroll through a list of options.

Press to escape out of a sub-menu back to the next tier up.

Use the alpha numeric keypad to enter text or numbers.

Press  $\frac{123}{ABC}$  to toggle between alphabet characters and numbers.

Press • to type a decimal point or full-stop.

With alphabet characters set, press  $\boxed{1}$  once to type a colon (:) or twice to type a hyphen (-).

With alphabet characters set, press **O** to type a space.

# Transferring a list of animal IDs to the indicator

Before weighing, a list of animal IDs (i.e. a EID-VID cross reference file) may be transferred from a PC to the indicator using Data Link software, supplied on USB flash drive/CD.

During a session, animal VIDs are displayed as the EIDs are being scanned if an EID-VID pair is present.

*Caution!* Do not connect the indicator to the PC until you have installed the Data Link software. To do this, insert the USB flash drive into a USB port or insert the CD into the CD drive on your PC and follow the instructions. Data Link includes the driver required by the indicator. If you have already connected the indicator without installing Data Link, disconnect the indicator and cancel the Windows wizard if this has begun.

To transfer a EID-VID cross reference file from a PC to the indicator:

- Connect the Indicator to the PC, using the Power/Communication cable with the power adaptor detached. Attach the Power/Communication end to the indicator's Power/Communication Connector and tighten the screw collar firmly. Insert the USB Connector end into a free USB port on the PC.
- 2 On the PC desktop, double-click on the shortcut for Data Link to launch the application.

Data Link displays **Connected to EziWeigh6** in the bottom lefthand corner of the window. This indicates that the indicator and PC are successfully connected.

- 3 On the Data Link window, click 🛖.
- 4 Select Cross reference file and click Next.
- 5 Browse to find the file containing the EID-VID pairs. Select the file and click **Open**.

A dialog box confirms that the IDs have been successfully transferred to the indicator.

6 Disconnect the Power/Communication cable at the PC (USB) end.

*Note:* The indicator must be disconnected from the PC before it can be used.

## Weighing animals

- 1 Press (b) to turn on the indicator.
- 2 Move the animal onto the platform.
- 3 Enter the animal's VID using the alpha numeric keypad, or scan the animal's EID tag using an EID reader.
- 4 Wait for the stable light to illuminate.
- 5 Press 📧.

When the animal moves off the platform, the indicator automatically returns to zero.

#### Notes:

- Entering the animal's ID is optional.
- The animal's VID or EID may be entered before the animal steps onto the platform.
- When inducting new animals, both the VID and EID can be entered.
- Duplicate IDs cannot be recorded within the same session. If the same ID is recorded twice in a session, the indicator will overwrite the old record with the most recent information.

#### Tips:

- Ensure that the animal is fully on the platform before pressing 🐵.
- Ensure that the underside of the platform or crate is kept clear of dirt and stones.

# Transferring recorded data from the indicator to a PC

Records may be transferred from the indicator to a PC using Data Link, supplied on USB flash drive/CD. Another application such as MS Excel can then be used for viewing and manipulating recorded data.

*Caution!* Do not connect the indicator to the PC until you have installed the Data Link software. To do this, insert the USB flash drive into a USB port or insert the CD into the CD drive on your PC and follow the instructions. Data Link includes the driver required by the indicator. If you have already connected the indicator without installing Data Link, disconnect the indicator and cancel the Windows wizard if this has begun.

To transfer records from the indicator to a PC:

- Connect the Indicator to the PC, using the Power/Communication cable with the power adaptor detached. Attach the Power/Communication end to the indicator's Power/Communication Connector and tighten the screw collar firmly. Insert the USB Connector end into a free USB port on the PC.
- 2 On the PC desktop, double-click on the shortcut for Data Link to launch the application.

Data Link displays **Connected to EziWeigh6** in the bottom lefthand corner of the window. This indicates that the indicator and PC are successfully connected.

Data Link displays all the session data recorded on the indicator in the main window.

- 3 In the left hand pane, select the sessions you want to transfer to the PC.
- 4 Click **↓** and select **Save selected sessions as files on the PC**. Click **Next**.
- 5 Accept the default file name and click **Save**.

## Using the Android\* smartphone app

The Tru-Test Data Link app is available to download for free from the Google Play\* store.

The app allows you to email a session file or register a transaction with NAIT or NLIS.

Instructions for using the Tru-Test Data Link app are available on the Tru-Test website www.tru-test.com.

## Zeroing the scale manually

By default, the scale automatically zeroes itself when a load is removed from the weighing platform or when the indicator first powers up. Occasionally, you may need to use the manual zero to force the scale to return to zero, for example if there is a build-up of dirt or stones on the platform.

To zero the scale manually:

Press (ZERO).

The scale displays zero.

## Sessions

To create a new session:

- 1 Press (MENU)
- 2 Press  $\bigtriangledown$ ,  $\bigtriangledown$  to display **Sessions**.
- 3 Press is to display **Start New**.
- 4 Press 腕.

A message **Started** is displayed.

To view statistics for a particular session:

- 1 Press MENU
- 2 Press  $\bigtriangledown$ ,  $\bigtriangledown$  to display **Sessions**.
- 3 Press 腕.
- 4 Press V to display **Statistics**.
- 5 Press 🕅.

A session date is displayed, followed by the count (number of records in the session). Press  $\xrightarrow{}$  to view the statistics for that session or, press  $\xrightarrow{}$  to view statistics for a different session. See pg 5 for an explanation of the statistics.

## Viewing statistics for a session

Statistics can be viewed for a particular session:

Count	Number of records in the session	
Average	Average weight recorded in the session.	
	<i>Note:</i> Records with no weights are ignored in the average calculation.	
Total	Total of all weights recorded in the session.	
Min	Minimum weight recorded in the session	

Max	Maximum weight recorded in the session
Low Count	Count of animals in Low range, (only available if drafting is enabled).
Medium Count	Count of animals in Medium range, (only available if drafting is enabled).
High Count	Count of animals in High range, (only available if drafting is enabled).

Note: Draft statistics can only be viewed for the current file.

To view statistics for the current session:

- 1 Press (MENU) to display **Statistics**.
- 2 Press 腕.
- 3 Press  $\bigvee$  to scroll through the list of statistics.

To view statistics for another session:

- 1 Press (NENU) to display **Statistics**.
- 2 Press 📂.
- 3 Press repeatedly until **Other Sessions** is displayed.
- 4 Press 腕.

A session date is displayed.

5 Press is to view the statistics for that session or, press view statistics for a different session.

### Deleting data

To delete the last record in the session:

- 1 Press (MENU).
- 2 Press V to display Clear Last Record.
- 3 Press 腕.

To delete the oldest session on the indicator:

- 1 Press MENU.
- 2 Press  $\bigtriangledown$ ,  $\bigtriangledown$  to display **Sessions**.
- 3 Press 腕.
- 4 Press , to display Clear Oldest Session.
- 5 Press 腕.

Note: ID information remains in the indicator.

To delete all the sessions on the indicator:

- 1 Press MENU.
- 2 Press  $\bigtriangledown$ ,  $\bigtriangledown$  to display **Sessions**.
- 3 Press 腕.
- 4 Press repeatedly until **Clear ALL Sessions** is displayed.
- 5 Press 🕅.

*Note:* ID information remains in the indicator.

To delete all data on the indicator:

- 1 Press MENU.
- 2 Press  $\bigtriangledown$ ,  $\bigtriangledown$  to display **Sessions**.
- 3 Press 腕.
- 4 Press verteatedly until Clear ALL Sessions & VID-EID Links is displayed.
- 5 Press 腕.

Note: All data, including ID information is deleted.

## Setups

The indicator can be customised to suit the weighing application or environmental conditions. The settings are accessed through the Setups menu.

#### Drafting (Sorting)

Drafting (Sorting) allows you to sort animals into two or three groups according to their weights. During weighing, the indicator displays the weight range in which the animal belongs and displays a drafting (sorting) direction to show you which way to draft (sort) animals.

There are two draft (sort) limit settings: a low limit and a high limit. The draft (sort) limits are the 'splitting points' for the groups:

,	High range direction ( $\blacktriangleleft \blacktriangle$ )	
High limit (weight)		_
	Medium range direction ( $\blacktriangleleft \blacktriangleright$ )	
Low limit (weight)		-
	Low range direction ( $\blacktriangleleft \blacktriangle$ )	
For two-way drafting (sorting kg into one pen and animals	), enter a weight for one of the draft (sort) limits above 300 kg into another, set the low limit to (	(leaving the other set to zero). For example, to draft (sort) animals below 300 ) kg and set the high limit to 300 kg:
	High range direction ( $\blacktriangleright$ )	Greater than 300 kg ►
High limit (300 kg) 🗕		-
	Medium range direction ( $\blacktriangle$ )	IGNORED!
Low limit (0 kg)		_
	Low range direction ( $\blacktriangleleft$ )	Less than 300 kg 🖪

For three-way drafting (sorting), enter a weight for both the low limit and high limit. For example, to draft (sort) animals into three pens 0-250 kg, 250-300 kg and 300+, set the Low limit to 250 kg and the High limit to 300 kg:

		High range direction ( $\blacktriangleright$ )	Greater than 300 kg $\blacktriangleright$
Hia	h limit (300 kg)		
5			
		Medium range direction ( $\blacktriangle$ )	250-300 kg 🔺
Ιον	v limit (250 ka)		
LOV	v mmt (250 kg)		
		Low range direction ( $\blacktriangleleft$ )	Less than 250 kg 🖪
To e	enable drafting:		
1	Press (MENU).		
2	Press 💎 repeate	edly to display <b>Setups</b> .	
3	Press 🔊 to display	y Draft.	
4	Press 🔤.		
5 Press is to enable drafting.			
To e	enter a range for the	low and high limits:	
1		5	
2	Press V repeatedly to display Seturs		
3 Press and to display Draft.			
4 Press Prov.			
5 Press V to display Low Limit.			
6 Type a value for the low limit range using the alpha-numeric keypad.			
7	7 Press Press		
8 Press 🗹 to display <b>High Limit</b> .			
9 Type a value for the high limit range using the alpha-numeric keypad.			
10	Press 🔤.		
11	Press 河 to chan	ge the direction in which you want animals to go wher	n they are being drafted.

#### Prefix

You can set the indicator to automatically apply prefixes to the VID as you enter them. This saves time typing. For example, if all of the VIDs are in the format AU476329 where 329 is the individual animal's number, you could set up a prefix of AU476. During weighing, when you type the individual animal's number 329, the indicator automatically adds the prefix AU476.

*Note:* Any combination of numbers, letters and spaces can be used for a prefix. The colon, dash and decimal point may also be used.

To enable the VID prefix feature and enter a VID prefix:

- 1 Press MENU.
- 2 Press repeatedly to display **Setups**.
- 3 Press 腕.
- 4 Press vito display **VID Prefix**.
- 5 Press into enable VID Prefix.
- 6 Press value for the VID prefix using the alphanumeric keypad.
- 7 Press 🖭.

#### Auto Increment VID

To save time when tagging and weighing animals, you can set the VID field to automatically increment for each new animal. This means you don't have to enter the VID, the number (or letter) will increment by one each time you record a weight. For example, if you have a box of ear tags that are sorted in order, you can set up the indicator to automatically apply the next number in sequence as you weigh and tag each animal. When weighing, the auto incremented VID number appears on the indicator as soon as the animal steps onto the weighing platform.

To enable auto-increment VID:

- 1 Press MENU.
- 2 Press repeatedly to display **Setups**.
- 3 Press 腕.
- 4 Press  $\bigtriangledown$ ,  $\bigtriangledown$  to display **Auto Inc VID**.
- 5 Press in to enable Auto Inc VID.

#### Backlight

The backlight is set to Low by default, however you can set it to High or Off to suit the lighting conditions. Use of the backlight will affect battery consumption – the run-time will double if the backlight is set to Low instead of High.

To modify the backlight setting:

- 1 Press (MENU)
- 2 Press vertex repeatedly to display **Setups**.
- 3 Press 🞰
- 4 Press repeatedly to display **Backlight**.
- 5 Press proce to change the Backlight to High or twice to change it to Off.

#### Resolution

You can specify the minimum weighing resolution.

You may want to change the minimum resolution, for example, if you are weighing very heavy loads and you are not too concerned with accuracy. By setting the resolution to 5 kg, the indicator will weigh to the nearest 5 kg and arrive at a weight more quickly. If you are weighing light loads, for example small animals, you may require accurate measurements. By setting the resolution to 0.1 kg, the indicator will weigh to the nearest tenth of a kilogram, although it may take longer for the scale to stabilise.

The resolution options depend on the type of load bars being used with the indicator.

To set the minimum weighing resolution:

- 1 Press (MENU)
- 2 Press vertex repeatedly to display **Setups**.
- 3 Press 🔊.
- 4 Press repeatedly to display **Resolution**.
- 5 Press prepeatedly as required to modify the resolution setting.

#### Auto Record

Automatic (auto) recording can be used in order to speed up weighing as there is no need to press (E) to complete the record. If Auto Record is used with an EID reader, recording becomes a completely hands-free operation. Auto recording should only be used where there is limited likelihood of external influences affecting the weight reading. When Auto Record (With No ID) is enabled, the indicator will not wait for an ID to be entered before recording. It will record as soon as the stable light indicator illuminates. When Auto Record (With ID) is enabled, the indicator will wait for an ID to be entered and the stable light indicator to illuminate before recording.

To enable auto recording:

- 1 Press MENU
- 2 Press vepeatedly to display **Setups**.
- 3 Press 腕.
- 4 Press vepeatedly to display Auto Record (with ID) or Auto Record (with no ID).
- 5 Press 腕.

#### Date and Time

The indicator's internal date and time affects the stamp applied to each session. The date format used is yyyy/mm/dd.

To modify the date or time setting:

- 1 Press MENU.
- 2 Press repeatedly to display **Setups**.
- 3 Press 腕.
- 4 Press vepeatedly to display the date or time.
- 5 Press pres

#### Auto Zero

By default, the scale automatically zeroes when a load is removed from the weighing platform or when the indicator first powers up. You may want to disable auto-zeroing, for example:

- if you are weighing a number of items together and it might take a while to load the items on the scale (e.g. weighing wool bales). In this case, the indicator may turn off after a period of inactivity and when powered up again, you would want the indicator to display the weight of the load – not zero.
- if you are weighing small weights on the platform.

With auto zero disabled, you can use  $\overleftarrow{\text{zero}}$  to manually zero the scale when required. See page 5.

To disable Auto Zero:

- 1 Press MENU.
- 2 Press vepeatedly to display **Setups**.
- 3 Press 🔊.
- 4 Press vepeatedly to display **Auto Zero**.
- 5 Press is to disable Auto Zero.

#### Auto Power Down

When Auto Power Down is enabled, the indicator turns itself off after 15 minutes of inactivity in order to conserve the internal battery.

To disable Auto Power Down:

- 1 Press MENU
- 2 Press repeatedly to display **Setups**.
- 3 Press 🗩
- 4 Press vertee repeatedly to display **Auto Power Down**.
- 5 Press is to disable Auto Power Down.

#### Record IDs only

When Record IDs Immediately is enabled, the indicator will not wait for the stable light to illuminate or the (RC) button to be pressed before recording. An animal record is created as soon as an ID is entered or scanned. This feature is useful, for example, when recording animals as they are loaded onto a truck. In this case, you would allow animals to file past, scan their EIDs or type in their VIDs. Using this method, you can record the EID or VID, but not both. When Record IDs Immediately is enabled, you cannot enter a comment.

This option is not suitable for inducting animals. When inducting animals, you can apply animal EID tags as you scan them, entering the VIDs as you go. You must disconnect the load bars from the indicator so that the indicator does not wait for a stable weight. This will allow you to press (a) as soon as you have entered the ID or IDs. The EID, VID or both may be entered for each animal record. The (a) button must be pressed for each animal.

To enable Record IDs Immediately:

- 1 Press (MENU)
- 2 Press repeatedly to display **Setups**.
- 3 Press 腕
- 4 Press vepeatedly to display **Record IDs Immediately**.
- 5 Press is to enable Record IDs Immediately.

#### Damp System

Damping is the length of time it takes in order for the indicator to settle on a weight. The damping system selected will depend on what you are weighing (cattle, sheep, produce, feed etc).

Superdamp III Cattle	Ideal damping system for weighing cattle
Superdamp III Sheep	Ideal damping system for weighing sheep

Fixed weighing time	You can specify the weighing time.
Averaging	The average weight for a specific number of seconds is continuously displayed. Used for non-moving weights such as produce and feed. You can specify the weighing time.

To modify the damp system setting and set the weigh time:

- 1 Press MENU.
- 2 Press vepeatedly to display **Setups**.
- 3 Press 腕.
- 4 Press V repeatedly to display **Damp System**.
- 5 Press prepartedly as required to modify the damp system setting.
- 6 Press voisplay Weigh Time.
- 7 Press prepeatedly as required to modify the weighing time.

*Note:* The Weigh Time option is only available if Fixed Weighing Time or Averaging has been selected as the Damp System setting.

#### Tolerance

Tolerance is how accurate you want the scale to be before the red stable ight will illuminate. Tolerance is calculated by multiplying the figure you set as the tolerance multiplier by the figure set for Resolution (see page 9). The figure set for Resolution is represented in the equation by the letter d (divisions). For example, if you set the tolerance multiplier to 0.5d (default) and the Resolution is 1 kg, then the tolerance will be 0.5 kg (0.5 x 1 kg). In this case, the red stable light will illuminate when the scale is within 0.5 kg of the animal's true weight. A lower tolerance will be more accurate, but it will cause weighing to take longer.

To modify the tolerance:

- 1 Press (MENU).
- 2 Press vertex repeatedly to display **Setups**.
- 3 Press 腕.
- 4 Press vertex repeatedly to display **Tolerance**.
- 5 Press prepeatedly as required to modify the tolerance multiplier.

#### Language

The indicator display can be set to English, Spanish, French, German, Portuguese, Chinese or Japanese.

To modify the language setting:

- 1 Press MENU
- 2 Press vepeatedly to display **Setups**.
- 3 Press
- 4 Press vepeatedly to display Language.
- 5 Press prepeatedly as required to modify the language setting.

#### Software version

You may need to view the software version for troubleshooting purposes.

To view the software version:

- 1 Press MENU.
- 2 Press vepeatedly to display **Setups**.
- 3 Press 腕.
- 4 Press vepeatedly until the software version is displayed.

## Caring for the indicator

Do not leave the indicator or load bars in water. Store the indicator in a cool, dry place.

By default, the indicator turns itself off after 15 minutes of inactivity, in order to conserve the battery.

Wipe the indicator using a damp cloth, warm water and soap. Other cleaners may damage the case.

Do not leave the indicator where it may be exposed to extreme temperatures (e.g. on the dashboard of a vehicle).

Fit the dust caps when there are no cables connected to the indicator. This will prevent moisture and dirt from entering the connectors.

## Service and warranty information

For service and warranty information, see www.tru-test.com.

# Updating the software

In order to update the indicator's software, you need to have Data Link installed on your PC first.

#### Checking for software updates

- 1 Connect the indicator to the PC and launch Data Link.
- 2 Click Tools/Updates.
- 3 Click Check for updates. If you want Data Link to automatically update the software each time you connect the indicator to the PC and run Data Link, enable Check for updates automatically. A dialog box will appear advising whether an update is available. Follow the onscreen instructions to complete the update.

*Note:* The indicator must be disconnected from the PC before it can be used.

# Specifications

Total capacity	2000 or 3000 kg (4400 or 6600 lb) depending on load bars used.
Resolution	Set to 0.5 kg (fine mode 0.1 kg) or 1 lb (fine mode 0.2 lb).
Accuracy	$\pm$ 1 % or 2 resolutions (whichever is greater) with Tru-Test load bars connected.
Power supply	5 V DC (power adaptor).
Operating temperature	-10 to +40 °C (+14 to +104 °F).
Storage temperature	-20 to +35 °C (-4 to +95 °F).
Internal battery run time	Up to 20 hours with 2 load bars connected.
Environmental	IP67 (immersion in up to 1 m (3') of water).
Animal records	Up to 10,000
Sessions	Up to 50

#### Updating the software from a file

If you have been provided with a software update file from  $\ensuremath{\mathsf{Tru-Test}},$  you can install it manually.

- 1 Download the update file onto your PC. The file format is pew7\_vX\_XX.bin, where X\_XX is the software version.
- 2 Connect the indicator to the PC and launch Data Link.
- 3 Click **Tools/Updates**.
- 4 Click **Update device firmware from a file**.
- Browse to find the .bin (binary) file containing the software update. Select the .bin file and click **Open**.A dialog box confirms that the software has been updated.

*Note:* The indicator must be disconnected from the PC before it can be used.

### Menus





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