

# EziWeigh7

**USER MANUAL** 



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## Contents

Getting started	1
Overview of the EziWeigh7	1
Parts of the indicator	
Charging the internal battery	
Installing the indicator	
The indicator interface	4
Using the indicator	6
Weighing animals without entering IDs	6
Weighing animals and entering IDs at the same time	
Weighing animals and drafting (sorting) them by weight	
Inducting animals by recording animal IDs without weighing	10
Connecting the indicator to other devices	11
Connecting the indicator to an EID Stick Reader via a <i>Bluetooth</i> ® wireless connection	
Connecting the indicator to load bars using load bar cables or load bar adaptors	
Connecting the indicator to a PC using the USB cable	
Connecting the indicator to an XRP2 EID Panel Reader via <i>Bluetooth</i> ® wireless connection	
Connecting the indicator to a non-Tru-Test brand EID Reader using a DB9 serial cable	
Connecting the indicator to an EID Stick Reader using the Stick Reader-Serial cable	13
Viewing statistics	14
Managing session records	10
Deleting data	15
Transferring information between the indicator and the PC	16
Installing Data Link	16
Using Data Link	
Transferring a list of animal IDs to the indicator	
Transferring recorded data from the indicator to a PC	
Deleting all data on the indicator using Data Link	18
Using the Android* smartphone app	18
Setups	10
setups	19
Updating the software	24
Checking for software updates	24
Updating the software from a file	
Troubleshooting/FAQ	25
General issues	
Issues with weighing	
Issues with connecting	
Caring for the indicator	27
Service and warranty information	27
Compliance	
·	
FCC notice	
FCC warningIndustry Canada notice	
EC declaration of conformity	
•	
Specifications	28
Menus	29

### **Getting started**

#### Overview of the EziWeigh7

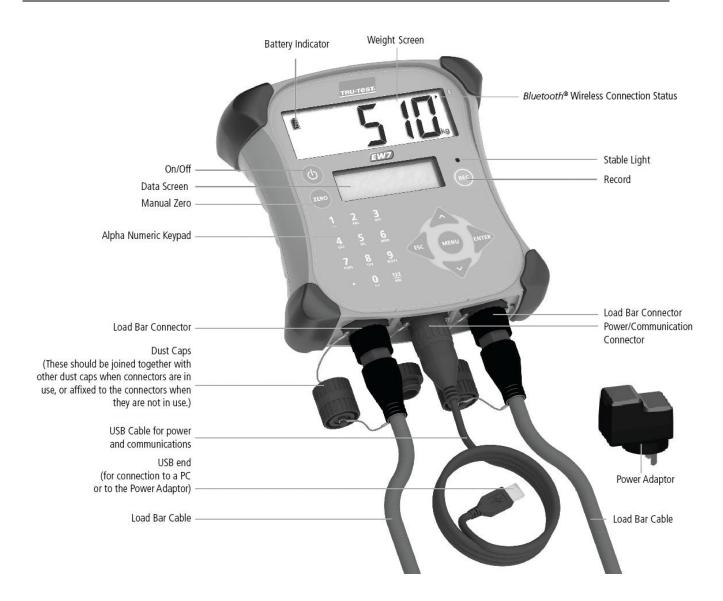
The Tru-Test EziWeigh7 weigh scale indicator (the indicator) offers seamless integration with EID readers for the efficient collection of information. Bluetooth® wireless connectivity between the indicator and a Tru-Test EID Stick Reader allows for roaming up to 100 m away.

The performance of individual animals can be monitored, enabling informed decisions to be made.

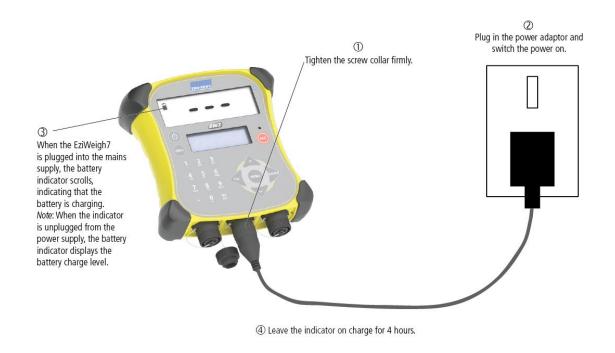
#### Features of the EziWeigh7:

- Records information by VID or EID tags.
- Displays an animal's daily weight gain since last weighing session.
- A 'comments' field allows treatments or traits to be entered during weighing.
- Bluetooth® wireless connectivity with Tru-Test EID Stick Reader.
- Speeds up weight drafting (sorting) by displaying direction for up to three weight ranges.
- VID/EID pairs can be pre-loaded onto the indicator. This enables the indicator to automatically show the VID once an EID is scanned.
- Statistics from current and previous weighing sessions can be displayed.
- Extra-rugged case design with large LCD display.
- Easy USB connectivity with PC for transferring data.
- Auto Zero for cancelling build up of dirt on the weighing platform.

#### Parts of the indicator



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



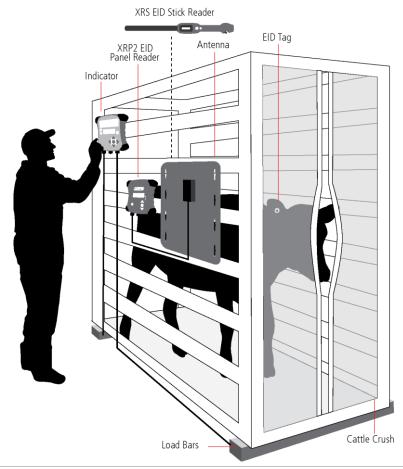
Note: The battery indicator may not be entirely accurate when the indicator is being used in very cold conditions (below 5 °C / 40 °F).

#### Installing the indicator

*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 USB cable and the power adaptor.
- If using an XRP2 Panel Reader to scan EID tags, connect the indicator to the panel reader (for summary instructions see *Connecting the indicator to other devices* on page 11, or for full details see the XRP2 EID Panel Reader's User Manual).

  If using an EID Stick Reader to scan EID tags, set the indicator up to communicate with the EID Stick Reader using *Bluetooth*® wireless connectivity (for summary instructions see *Connecting the indicator to other devices* on page 11, or for full details see the EID Stick Reader's User Manual).



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.

#### The indicator interface

#### The data screen

During weighing, the data screen displays relevant information:



#### Menu button

Press (MENU) 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 the indicator settings and enable extra features.

#### Using the keypad to nagivate through the menus

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

Press or voto scroll through a list of options.

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

#### Using the keypad to enter data

Use the alpha numeric keypad to enter text or numbers.

Press to toggle between alphabet characters and numbers.

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

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

With alphabet characters set, press 0 to type a space.

#### Stable light

The red stable light illuminates when the weight is stable. A weight cannot be recorded until the stable light is illuminated.

#### Record key

Press (REO) to record an animal's weight.

Note: Pressing (RE) is not necessary if the indicator is set to record weights automatically See Automatic Recording on page 21.

#### Manual zero key

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.

To zero the scale manually:

Press (ZERO).

The scale displays zero.

Note: To disable Auto Zero, see Auto Zero on page 21.

#### Entering a comment

A comment about an animal (e.g. a condition score) may be entered during the weighing session. The comment will be saved as part of the session data.

To enter a comment:

1 After entering the animal's ID number(s), press .... scroll down (press )

After entering the IDs... ... scroll down (press )
to enter a comment about the animal

2 Enter a comment using the alpha numeric keypad.



#### Viewing weight gain

During weighing, weight gain per day will displayed if a weight has been recorded for the same animal in a previous weighing session and the record is still on the indicator. Weight gain is displayed on the Data screen when the weight is stable and the ID has been entered. Weight gain is saved as part of the session data.



### Using the indicator

Here are four examples of common ways to use the indicator:

#### Weighing animals without entering IDs

You may want to weigh your animals without recording their IDs or any information about particular animals. This could be useful if you want to view or download statistics about a group of animals quickly.

To weigh animals:

- 1 Create a new session (Press  $\bigvee$ ,  $\bigvee$ ,  $\bowtie$  then  $\bowtie$ ). See Managing session records on page 15 for more information about creating sessions.
- 2 Move the animal onto the platform.
- 3 Wait for the stable light to illuminate.
- 4 Press (EC).

  When the animal moves off the platform, the indicator automatically returns to zero.
- 5 Repeat steps 2-4 for all animals.

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.
- To speed up weighing, you can set the indicator to record weights automatically, eliminating the need to press ©. See *Automatic Recording* on page 21.

During or after weighing, you can view statistics for the weighing session. Statistics available include:

- Count of records
- Average weight
- Total of all weights
- Minimum and maximum weight.

To view statistics, press (R), (V), (V), (V) and (R). See *Viewing statistics* on page 14 for more information.

After the weighing session is complete, you can transfer the recorded session data to a PC for analysis or to share with others. Alternatively, you can use an Android\* smartphone to email sessions.

To transfer data to a PC, you need to have Data Link installed on your PC first. For installation instructions, see *Installing Data Link* on page 16.

To transfer recorded data to a PC:

- 1 Connect the indicator to the PC using the USB cable.
- 2 Launch Data Link, click **\(\frac{1}{2}\)**, click **Next** and save the file.

See Transferring information between the indicator and the PC on page 16 for more information about transferring data.

To email a session or register a transaction with NAIT or NLIS:

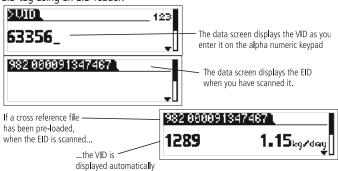
Use Tru-Test Data Link, the free Android\* smartphone app. See Using the Android\* smartphone app on page 18 for more information.

#### Weighing animals and entering IDs at the same time

You can weigh animals and record IDs and other information about particular animals.

#### To weigh animals:

- 1 Create a new session (Press , , , he then he). See *Managing session records* on page 15 for more information about creating sessions.
- 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 Press and enter a comment about the animal using the alpha numeric keypad, if desired.



- 5 Wait for the stable light to illuminate.
- 6 Press (REO).

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

7 Repeat steps 2-6 for all animals.

#### Notes:

- Entering the animal's ID is optional.
- Entering a comment about an animal 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.
- During weighing, weight gain per day will displayed if a weight has been recorded for the same animal in a previous weighing session and the record is still on the indicator. See Viewing weight gain on page 5.
- 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 (E).
- Ensure that the underside of the platform or crate is kept clear of dirt and stones.
- To speed up weighing, you can set the indicator to record weights automatically, eliminating the need to press (ac). See *Automatic Recording* on page 21.
- When inducting new animals, VIDs can be set to automatically increment. This means you don't need to enter the VID, the number or letter will increment by one each time you record a weight. See *Auto Increment VIDs* on page 20.
- You can pre-load a cross reference file containing EIDs and corresponding VIDs using Data Link, supplied with the indicator. If a cross reference file has been preloaded, the animal's VID will appear when an EID tag is scanned. See *Transferring information between the indicator and the PC* on page 16 for more information about transferring data.
- You can set the indicator to automatically apply a prefix to the VIDs as you enter them. See *Prefix VIDs* on page 20.

During or after weighing, you can view statistics for the weighing session. Statistics available include:

- Count of records
- Average weight
- Total of all weights
- Minimum and maximum weight.
- Average, minimum and maximum weight gain (only available if weight gains exist in the weighing session).

To view statistics, press (Fig. 7), (Fig. 7), (Fig. 8) and (Fig. 8). See *Viewing statistics* on page 14 for more information.

After the weighing session is complete, you can transfer the recorded session data to a PC for analysis or to share with others. Alternatively, you can use an Android\* smartphone to email sessions.

To transfer data to a PC, you need to have Data Link installed on your PC first. For installation instructions, see *Installing Data Link* on page 16.

To transfer recorded data to a PC:

- 1 Connect the indicator to the PC using the USB cable.
- 2 Launch Data Link, click **\Pi**, click **Next** and save the file.

See *Transferring information between the indicator and the PC* on page 16 for more information about transferring data.

To email a session or register a transaction with NAIT or NLIS:

Use Tru-Test DataLink, the free Android\* smartphone app. See *Using the Android\* smartphone app* on page 18 for more information.

#### Weighing animals and drafting (sorting) them by weight

You can weigh animals and draft (sort) them according to their weights. The weight ranges can be customised. During weighing, the indicator displays a direction arrow depending on the weight range in which the animal belongs. If Drafting (Sorting) is enabled, the session statistics also show a count for each draft (sort) range. For more information about setting up drafting (sorting) including draft (sort) ranges, see *Drafting* (Sorting) on page 19.

To draft (sort) animals by weight:

- 1 Enable Drafting (Sorting) (Press (P
- 2 Set the draft (sort) range lower limit (Press volume to display **Low Limit**, type a value for the low limit range, press ).
- 3 Set the draft (sort) range upper limit (Press volume to display **High Limit**, type a value for the high limit range, press ).
- 4 Set the draft (sort) direction for the lower range (Press to display **Low Direction**, press repeatedly).
- 5 Set the draft (sort) direction for the middle range (Press v to display **Mid Direction**, press repeatedly).
- 6 Set the draft (sort) direction for the upper range (Press v to display **High Direction**, press repeatedly).
- Weigh animals as described above, entering animal IDs during weighing, if desired.

During weighing, the data screen displays the animal ID and the direction the animal should be drafted (sorted) according to its weight



Lower range - move animal to the left

Mid range - move animal straight ahead

Upper range - move animal to the right

During or after weighing, you can view statistics for the weighing session. Statistics available include:

- Count of records
- Average weight
- Total of all weights
- Minimum and maximum weight.
- Average, minimum and maximum weight gain (only available if weight gains exist in the weighing session).
- Count of animals in low, medium and high ranges.

To view statistics, press (RN),  $\checkmark$ ,  $\checkmark$ ,  $\checkmark$ , and  $\checkmark$  and  $\checkmark$ . See *Viewing statistics* on page 14 for more information.

After the weighing session is complete, you can transfer the recorded session data to a PC for analysis or to share with others. Alternatively, you can use an Android\* smartphone to email sessions.

To transfer data to a PC, you need to have Data Link installed on your PC first. For installation instructions, see *Installing Data* Link on page 16.

To transfer recorded data to a PC:

- 1 Connect the indicator to the PC using the USB cable.
- 2 Launch Data Link, click **\Pi**, click **Next** and save the file.

See Transferring information between the indicator and the PC on page 16 for more information about transferring data.

To email a session or register a transaction with NAIT or NLIS:

Use Tru-Test Data Link, the free Android\* smartphone app. See *Using the Android\* smartphone app* on page 18 for more information.

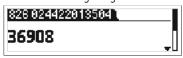
Note: The draft (sort) direction is recorded in the session data.

#### Inducting animals by recording animal IDs without weighing

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 @ as soon as you have entered the ID or IDs. The EID, VID or both may be entered for each animal record. The button must be pressed for each animal.

To record animal IDs without weighing:

- 1 Disconnect load bar connectors.
- 2 Create a new session (Press , , , ) then ). See Managing session records on page 15 for more information about creating sessions.
- 3 Enter the animal's VID using the alpha numeric keypad and scan the animal's EID tag using an EID reader.



4 Press and enter a comment about the animal using the alpha numeric keypad, if desired.



- 5 Press (REC).
- 6 Repeat steps 3-5 for each new animal record.

Notes: Entering a comment about an animal is optional.

#### Tips:

- When inducting new animals, VIDs can be set to automatically increment. This means you don't need to enter the VID, the number or letter will increment by one each time you record a weight. See *Auto Increment VIDs* on page 20.
- You can set the indicator to automatically apply a prefix to the VIDs as you enter them. See *Prefix VIDs* on page 20.

### Connecting the indicator to other devices

The EziWeigh7 indicator can be used in various weighing configurations. It may be connected to:

- Tru-Test EID Stick Reader or other brand stick reader for reading EID tags using a Bluetooth® wireless connection
- Tru-Test Load Bars or other brand load bars for weighing
- A PC for transferring animal IDs from the PC to the indicator or transferring recorded data from the indicator to the PC.
- Tru-Test XRP2 EID Panel Reader or other brand panel reader for reading EID tags

A summary of information is provided for connection to Tru-Test products only. For comprehensive installation instructions, see the device's own user manual. If you have trouble connecting the indicator to a device, see *Troubleshooting/FAQ* on page 25.

#### Connecting the indicator to an EID Stick Reader via a *Bluetooth*® wireless connection

To establish a *Bluetooth* wireless connection between the indicator and a Tru-Test EID Stick Reader, XRP2 EID Panel Reader or other *Bluetooth* enabled EID reader, you need to 'pair' the two devices. The following instructions are specifically for pairing a Tru-Test XRS EID Stick Reader. If your *Bluetooth* enabled EID reader is not a Tru-Test EID Stick Reader, refer to the pairing instructions that came with your reader.

#### Note:

- Before pairing the two devices, ensure that the stick reader has BLUETOOTH® set to Auto (BT AUTO displayed on the LCD). If not, press and hold both the Read button and the Scroll button to enter the stick reader's settings. Press the scroll button repeatedly to scroll through the options. When BLUETOOTH® is selected, press the Read button repeatedly until BLUETOOTH® (AUTO) is displayed.
- When connecting the two devices, the indicator must always be turned on before the stick reader.

To pair the indicator with the stick reader:

- 1 Ensure the stick reader and the indicator are well within range of each other and that the stick reader is turned off.
- 2 Press (b) to turn on the indicator.
- 3 Press the Read button to turn on the stick reader.
  - A rotating circle displays on the stick reader's LCD indicating that it is searching for *Bluetooth* devices.
- 4 After approximately one minute, the pairing is complete and a connection is established.

A lightning bolt appears on the stick reader's LCD (see below), the blue LED illuminates and a small arrow appears in the top right-hand corner of the indicator's Weight screen to show that the wireless connection is active (see *Bluetooth*® Wireless Connection Status shown on *Parts of the indicator* on page 1).

Bluetooth wireless connection active



Now that pairing is complete, subsequent connections should be virtually instant.

#### Troubleshooting

- If the stick reader automatically connects to another *Bluetooth* enabled device instead of the indicator, turn off the other device and start the pairing procedure again.
- Pairing may fail if there are too many Bluetooth enabled devices in the vicinity. Once the stick reader has found 10 devices, it stops searching for others.
- If your *Bluetooth* enabled EID reader is not a Tru-Test EID Stick Reader, your reader must be capable of being the *Bluetooth* master device. The adaptor is a slave device only.

#### Testing the connection

- 1 Ensure the stick reader and the indicator are well within range of each other and that the stick reader is turned off.
- 2 Press (b) to turn on the indicator.
- 3 Press the Read button to turn on the stick reader.
  - After a few seconds, a lightning bolt appears on the stick reader's LCD and a small arrow appears in the top right-hand corner of the stick reader's LCD to show that the wireless connection is active.
- 4 Scan an EID tag with the stick reader (Press and release the Read button while passing near an EID tag).
  - The EID tag number should appear on the indicator's Data screen.

#### Connecting the indicator to load bars using load bar cables or load bar adaptors

You can connect the indicator to Tru-Test load bars using the cables provided with the load bars. The indicator can also connect to other brands of load bars either directly or using load bar adaptors.

To connect the indicator to the load bars:

Plug the ends of the load bar cables into the indicator's load bar connectors and the other ends into the load bars.

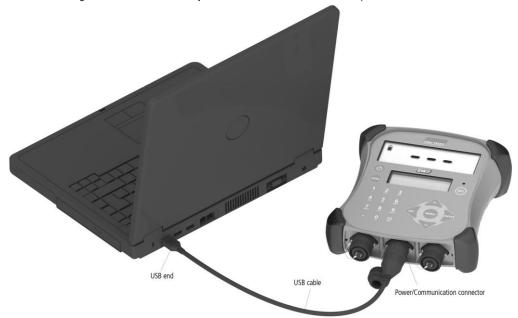
Ensure that all cable connections are secure.

#### Connecting the indicator to a PC using the USB cable

You can connect the indicator to a PC using the USB cable provided with the EziWeigh7 indicator.

Before connecting the indicator to the PC, install the Data Link software provided with the EziWeigh7 indicator. For installation instructions, see *Installing Data Link* on page 16.

1 Connect the Indicator to the PC, using the USB cable. Attach the Power/Communication end to the indicator's Power/Communication Connector and tighten the screw collar firmly. Insert the USB end into a free USB port on the PC.



On the PC desktop, double-click on the shortcut for Data Link to launch the application.

The indicator displays **USB connected** and Data Link displays **Connected to EziWeigh7** in the bottom left-hand corner of the window. This indicates that the indicator and PC are successfully connected.

#### Connecting the indicator to an XRP2 EID Panel Reader via Bluetooth® wireless connection

To establish a connection between the indicator and an XRP2 EID Panel Reader, you need to 'pair' the two devices.

Note: When connecting the indicator wirelessly to an XRP2 EID Panel Reader, always turn on the indicator first BEFORE the panel reader.

- 1 With both devices off, position the indicator within 5 metres of the panel reader.
- 2 Switch on the indicator.
- Connect the panel reader to a power source (mains power or battery).

  Wait for up to 1 minute until the devices are paired. When pairing is complete, the blue LED illuminates and a small arrow appears in the top right-hand corner of the indicator's Weight screen to show that the wireless connection is active (see *Bluetooth*® Wireless Connection Status shown on *Parts of the indicator* on page 1).
- 4 Scan an EID tag with the panel reader in order to test the connection. The EID tag number should appear on the indicator's Data screen.

#### Connecting the indicator to a non-Tru-Test brand EID Reader using a DB9 serial cable

You can connect the indicator to a non-Tru-Test brand of EID Reader using a DB9 serial cable which is sold as an accessory (Tru-Test part number 818324).



Plug the end of the DB9 serial cable into the indicator's power/communication connector and the other end into the EID Reader. Ensure that all cable connections are secure.

#### Connecting the indicator to an EID Stick Reader using the Stick Reader-Serial cable

You can connect the indicator to an EID Stick Reader using the Stick Reader-Serial cable which is sold as an accessory (Tru-Test part number 819630).



Plug the end of the Stick Reader-Serial cable into the indicator's power/communication connector and the other end into the EID Reader. Ensure that all cable connections are secure.

## Viewing statistics

Statistics can be viewed for the current session or for previously recorded sessions.

To view statistics for the current session:

- 1 Press when to display **Statistics**.
- 2 Press .
- 3 Use the arrows to scroll through the statistics for the current session.

To view statistics for previously recorded sessions:

- 1 Press (MEN), V, V to display **Sessions**. Press (MEN) to display **Statistics**.
- 2 Press .
- 3 Use the arrows to scroll through the list of sessions.
- 4 Select a session and press .
- 5 Use the arrows to scroll through the statistics for the selected session.

#### Statistics available:

Count	Number of records in the session.
Average Average weight recorded in the session.	
	Note: 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.
Average Gain	Average weight gain calculated for the session (only available if weight gains exist in the weighing session).
Minimum Gain	Minimum weight gain calculated for the session (only available if weight gains exist in the weighing session).
Maximum Gain	Maximum weight gain calculated for the session (only available if weight gains exist in the weighing session).
Low Count	Count of animals in Low range, (only available if drafting/sorting is enabled).
Medium Count	Count of animals in Medium range, (only available if drafting/sorting is enabled).
High Count	Count of animals in High range, (only available if drafting/sorting is enabled).

Note: Draft (Sort) statistics can only be viewed for the current session.

## Managing session records

Data is recorded on the indicator in sessions. It is advisable to begin a new session each time you weigh. The indicator can store up to 100 sessions.

To manage session data, go to the sessions menu (Press (Pr

Start New	The session name is automatically created using the date the session was started. When you transfer sessions to a PC, Data Link will apply a sequence number to each file name (e.g. session 1 being the oldest session). This is so that you can easily identify a session if there was more than one session created in a single day.  To start a new session:  Press  A message <b>Started</b> is displayed.
Statistics	Statistics can be viewed for a particular session. For more information, see <i>Viewing statistics</i> on page 14.  To view statistics for a particular file:  1  Press .  2  Press .  3  Use the arrows to scroll through the list of sessions.  4  Select a session and press .  5  Use the arrows to scroll through the statistics for the selected session.
Clear oldest session	To clear the oldest session recorded on the indicator:  1  Press , to display Clear Oldest Session.  2  Press .  Note: ID information remains in the indicator.
Clear ALL sessions	To clear all sessions recorded on the indicator:  1  Press , to display Clear Oldest Session.  2  Press .  Note: ID information remains in the indicator.
Clear ALL Sessions & VID-EID Links	This option deletes all data recorded on the indicator (including ID information). The same process can be done from within Data Link. See <i>Deleting all data on the indicator using Data Link</i> on page 18.

#### Deleting data

If you make a mistake during the weighing session and you want to quickly delete the last record in the session, there is no need to go into the sessions menu, you can simply clear the last record.

To delete the last record in the session:

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

## Transferring information between the indicator and the PC

Information may be transferred between the indicator and the PC using the Data Link software application, supplied on USB flash drive/CD.

#### **Installing Data Link**

Note: Do not connect the indicator to the PC until you have installed Data Link.

To install Data Link:

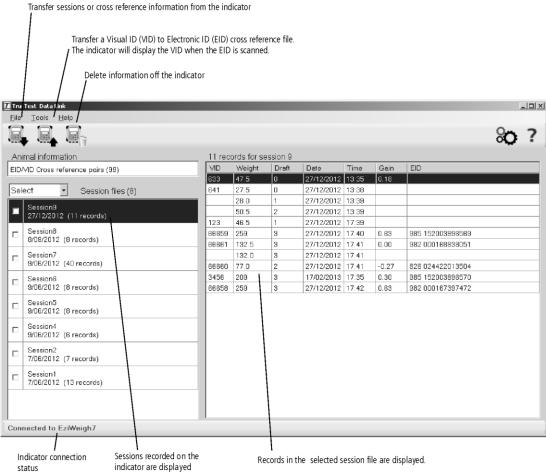
Insert the USB flash drive into a USB port or insert the CD into the CD drive on your PC and follow the instructions.

#### **Using Data Link**

Before you begin: If you haven't done so already, install Data Link on your PC.

To use Data Link:

- 1 Connect the indicator to the PC and launch the application. See Connecting the indicator to a PC using the USB cable on page 12.
- 2 Wait for the indicator to connect to the PC (this may take up to 1 minute).
- 3 Click one of the menu options:



#### Transferring a list of animal IDs to the indicator

A file containing EIDs and corresponding VIDs (visible tag numbers) can be exported to the indicator prior to a weighing session, using Data Link. If a cross-reference file has been pre-loaded, the animals' VID will appear on the Data Screen when a tag is scanned. The EID displayed in small numerals directly above.



Up to 15,000 EID/VID pairs may be exported to the indicator. The cross-reference file must be formatted as follows:

- File must be in .csv, .xls or .xlsx format. .txt files are also acceptable as long as the fields are separated by a comma (essentially a .csv file).
- The file must contain only two columns of data one column for VIDs and one for EIDs.
- VIDs can be in the first column and EIDs in the second column, or the other way around.
- A header row is optional.
- The file should only contain letters and digits. It must not contain any of the following characters [] () {},;`~^\\#.
- If the VID is 16 characters or more, only the digits after the last letter from the right hand end will be used. For example, if the VID in cross-reference file is 12345678XBX00047, it will be exported as 00047. This allows the use of tag bucket files.
- The EID format used in the EID-VID pairs file can be in any of the three allowable formats. The allowable formats for EID are: Standard (e.g. 826 0000000123456), No space (e.g. 8260000000123456) and Hexadecimal (e.g. 8000F58000000001).

Here are two possible formats for the cross-reference file:

	А	В
1	123	826 000000123456
2	456	826 000000987654
3	345	826 000000123457

No header row = VIDs in first column, EIDs in second column or the other way around

	А	В	
1	EID	VID	
2	826 000000123456	123	
3	826 000000987654	456	
4	826 000000123457	345	
-			

Header row = EIDs in first column, VIDs in second column or the other way around

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 cross reference file from a PC to the indicator:

- 1 Connect the indicator to the PC and launch Data Link. See Connecting the indicator to a PC using the USB cable on page 12.
- 2 On the Data Link window, click  $lack \Phi$ .
- 3 Select Cross reference file and click Next.
- Browse to find the file containing the EID, VID pairs. Select the file and click **Open**.
   A dialogue box confirms that the IDs have been successfully transferred to the indicator.
- 5 Disconnect the USB cable.

#### Note:

- If the cross reference file is not in .csv format, in step 3 when browsing, click on the drop-down arrow in the **Files of Type** field and select **All Files**. This will allow you to select another file format such as .xls.
- The indicator must be disconnected from the PC before it can be used.

#### Transferring recorded data from the indicator to a PC

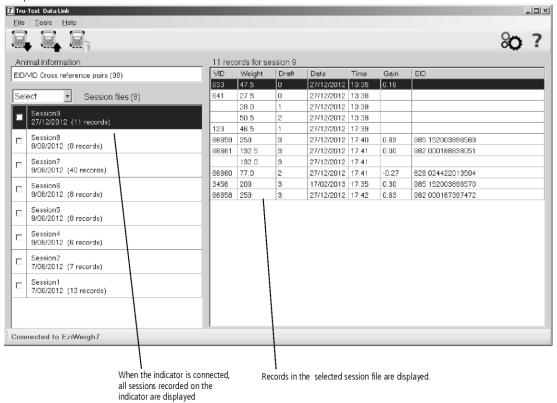
Records may be transferred from the indicator to a PC using Data Link, supplied on USB flash drive/CD. Another application such as MS Excel can then be used for viewing and manipulating recorded data.

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:

- 1 Connect the indicator to the PC and launch Data Link. See *Connecting the indicator to a PC using the USB cable* on page 12. Data Link displays all the sessions recorded on the indicator in the main window.
- 2 In the left hand pane, select the sessions you want to transfer to the PC.
- 3 Click and select Save selected sessions as files on the PC. Click Next.

4 Accept the default file name and click **Save**.



#### Deleting all data on the indicator using Data Link

You can delete selected sessions or all information on the indicator (all sessions and cross reference information), using Data Link. To delete information from the indicator:

- 1 Connect the indicator to the PC and launch Data Link. See *Connecting the indicator to a PC using the USB cable* on page 12.
- 2 On the Data Link window, click .
- Select **Selected sessions** or **All information on device (all session files and cross reference information).** Click **Next**. A warning dialogue is displayed. Click **Yes**. A dialogue confirms that the data has been deleted.

Tip: The same process can be done from within the indicator. See Managing session records on page 15.

## 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.

### Setups

The indicator can be customised to suit the weighing application or environmental conditions. The settings are accessed through the Setups menu. To access the Setups menu, press repeatedly to display **Setups**.

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

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

#### 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:

For two-way drafting (sorting), enter a weight for one of the draft (sort) limits (leaving the other set to zero). For example, to draft (sort) animals below 300 kg into one pen and animals above 300 kg into another, set the low limit to 0 kg and set the high limit to 300 kg:

	High range direction (►)	Greater than 300 kg ▶
High limit (300 kg)		_
	Medium range direction ( $lacktriangle$ )	IGNORED! ▲
Low limit (0 kg)		_
	Low range direction (◀ )	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 ▶
High limit (300 kg)		-
	Medium range direction ( $lacktriangle$ )	250-300 kg ▲
Low limit (250 kg)		_
	Low range direction (◀)	Less than 250 kg ◀

Explanation	Options
	Drafting (Off)* [Sorting (Off) – USA only]
Enable this option to sort animals into groups according to their weights.	Drafting (With no ID) Sorting (With no ID) — USA only
Enable this option to sort animals into groups according to their weights.	Drafting (With ID) Sorting (With ID) — USA only
Type a value for the low limit range using the alpha-numeric keypad.	Low Limit
Type a value for the high limit range using the alpha-numeric keypad.	High Limit
This is the direction in which you want animals in the low range to go.	Low Direction
This is the direction in which you want animals in the mid range to go.	Mid Direction
This is the direction in which you want animals in the mid range to go.	High Direction
This option is only available if Drafting (With ID) [Sorting (With No ID)] has been enabled and is only relevant when the indicator is being used with an Auto Drafter (currently not supported). The animals will not be released if an ID has not been entered.	Release If No EID (No)
This option is only available if Drafting (With ID) [Sorting (With No ID)] has been enabled and is only relevant when the indicator is being used with an Auto Drafter (currently not supported). The animals will automatically be released after a period of time, even if an ID has not been entered. The timeout period can be set in the Timeout for no-EID field.	Release If No EID (Yes)
This option is only available if Release If No EID is set to (Yes).  Type in a value for the timeout period for entering an ID. If an ID has not been entered within this period of time, the animal will be automatically released.	Timeout For No-EID

Prefix VIDs			
Explanation	Options		
You can set the indicator to automatically apply prefixes to the VID as you enter them. This saves time	Prefix (Off)*		
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.	Prefix (On)		
To enter a prefix, enable Prefix then type in a value for Prefix using the alpha-numeric keypad.			
<i>Note:</i> Any combination of numbers, letters and spaces can be used for a prefix. The colon, dash and decimal point may also be used.			

Auto Increment VIDs			
Explanation	Options		
To save time when tagging and weighing animals, you can set the VID field to automatically	Auto Inc VID (Off)*		
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.	Auto Inc VID (On)*		

Repeat comment	
Explanation	Options
If you enter a comment about an animal and you want to repeat it for all animals in the session, you	Repeat (Off)*
can enable Repeat. After you enter the comment, it will automatically repeat for all subsequent animals unless you over-ride it by entering a different comment. For example, you may want to enter a comment that you are administering a treatment to all animals.	Repeat (On)

Resolution	
Explanation	Options
You can specify the minimum weighing resolution.	Resolution 0.1 kg
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,	Resolution 0.2 kg
	Resolution 0.5* kg
	Resolution 1 kg
the indicator will weigh to the nearest tenth of a kilogram, although it may take longer for the scale to stabilise.	Resolution 2 kg
The resolution options depend on the type of load bars being used with the indicator.	Resolution 5 kg

Backlight	
Explanation	Options
The backlight is set to Low by default, however you can set it to High or Off to suit the lighting	Backlight (Low)*
conditions. Use of the backlight will affect battery consumption — the run-time will double if the backlight is set to Low instead of High.	Backlight (High)
backlight is set to Low instead of riight.	Backlight (Off)

Automatic Recording	
Explanation	Options
Automatic (auto) recording can be used in order to speed up weighing as there is no need to press	Auto Record (Off)*
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	Auto Record (With No ID)
of external influences affecting the weight reading.	Auto Record (With ID)
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.	

Date and Time	
Explanation	Options
The indicator's internal date and time affects the stamp applied to each session. The date format used	Date (yyyy-mm-dd)
is yyyy/mm/dd. The time format is hh:mm. To change the date and time, type in the date and time using the alpha numeric keypad.	Time (hh:mm)

Auto Zero	
Explanation	Options
By default, the scale automatically zeroes when a load is removed from the weighing platform or	Auto Zero (On)*
<ul> <li>when the indicator first powers up. You may want to disable auto-zeroing, for example:</li> <li>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.</li> <li>if you are weighing small weights on the platform.</li> <li>With auto zero disabled, you can use to manually zero the scale when required. See Manual zero key on page 4.</li> </ul>	Auto Zero (Off)*

Auto Power Down	
Explanation	Options
When Auto Power Down is enabled, the indicator turns itself off after 15 minutes of inactivity in order	Auto Power Down (On)*
to conserve the internal battery.	Auto Power Down (Off)

Record IDs Immediately	
Explanation	Options
When Record IDs Immediately is enabled, the indicator will not wait for the stable light to illuminate	Record IDs Immediately (Off)*
or the 😥 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.	Record IDs Immediately (On)
This option is not suitable for inducting animals. See <i>Inducting animals by recording animal IDs without weighing</i> on page 10.	

Damp System	
Explanation	Options
Damping is the length of time it takes in order for the indicator to settle on a weight. The damping syst weighing (cattle, sheep, produce, feed etc).	em selected will depend on what you are
Ideal damping system for weighing cattle	Superdamp III Cattle
Ideal damping system for weighing sheep	Superdamp III Sheep
You can specify the weighing time	Fixed weighing time
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.	Averaging
Specify the weighing time if Damp System set to Fixed Weighing Time or Averaging.	Weigh Time (0.1 s – 10 s)
<i>Note:</i> The Weigh Time option is only available if Fixed Weighing Time or Averaging has been selected as the Damp System setting.	

Tolerance	
Explanation	Options

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 21). 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.

Specify the tolerance multiplier.	0.1d, 0.25d, 0.5d*, 1d, 2d

Language	
Explanation	Options
The indicator display can be set to English, Spanish, French, German, Portuguese, Chinese or Japanese.	English
	Idioma (Español) = Spanish
	Langue (Français) = French
	Sprache (Deutsch) = German
	Lingua (Português) = Portuguese
	Language (简体中文) = Chinese
	Language (日本) = Japanese

#### Bluetooth® Address

The indicator's *Bluetooth* address is displayed. This field is read-only.

#### Software Version

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

## Updating the software

In order to update the indicator's software, you need to have Data Link installed on your PC first. For installation instructions, see *Installing Data Link* on page 16.

#### Checking for software updates

- 1 Connect the indicator to the PC and launch Data Link. See Connecting the indicator to a PC using the USB cable on page 12.
- 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 dialogue 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.

#### Updating the software from a file

If you have been provided with a software update file from 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. See *Connecting the indicator to a PC using the USB cable* on page 12.
- 3 Click Tools/Updates.
- 4 Click **Update device firmware from a file**.
- 5 Browse to find the .bin (binary) file containing the software update. Select the .bin file and click **Open**. A dialogue box confirms that the software has been updated.

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

## Troubleshooting/FAQ

## General issues

Problem	Possible cause and solution	
Indicator does not switch on.	Check that the indicator is charged (examine the Battery Indicator on the Weight screen, s	
Indicator switches on but does not stay on.	Parts of the indicator on page 1).	
Battery does not charge	Check all connections between the indicator and the power adaptor or PC.	

## Issues with weighing

Problem	Possible cause and solution
Reading does not return to zero between animals	Check for binding. If you use chains to prevent crate movement, they must remain slack while the animal is being weighed.
Difference in readings at each end of the platform.	Ensure that the platform or crate does not touch any other part of the race or concrete pad. This could be caused by movement of the load bars or a build up of dung, dirt, or stones.
Readings less than expected	Ensure that the load bar feet are sitting evenly on the pad and the ground is level. There should be no stones or dung under the rubber feet. All four load bar feet should be firmly in contact with the ground.
	Check pinning / anchoring. Misaligned bolt holes put a residual load on the load bars. It may be necessary to enlarge the mounting holes in the platform or crate to improve the alignment.
	Ensure that the animal does not touch unweighed sides or gates of the enclosure. Even touching a vertical surface affects the weight reading.
Reading unstable	Check for moisture in the load cell connectors in either the indicator or load bars.
Zeroing takes a long time	Moisture can be removed from the plugs or caps using methylated spirits, ethyl alcohol or a suitable electrical contact cleaner. Stronger solvents must not be used as they react with the plastic.
Overload	
Underload	Check the cable for damage. If the cable is damaged, return it for service.
	Otherwise, the problem could be caused by moisture in the load bars or indicator. If available, check the indicator with another set of load bars.
	Try each load bar separately to see if the problem is with one bar.
	If moisture is the possible cause of failure, return the indicator for service.
bAd.c, ER 05 or Bad code displayed	The connected load bar/cell may not be automatically supported by the indicator and may require calibration. Contact your local representative for details.

## Issues with connecting

Problem	Possible cause and solution
I can't seem to establish a <i>Bluetooth</i> ® wireless connection between the indicator and a Tru-Test EID Stick Reader.	Turn on the indicator first, then the stick reader.
	• The stick reader has connected to another <i>Bluetooth</i> enabled device instead of the indicator. Turn off the other device and start the pairing procedure again.
	• The stick reader hasn't been set to connect via <i>Bluetooth</i> automatically. Change the stick reader settings to connect via <i>Bluetooth</i> automatically (see the EID Stick Reader User Manual for details).
	Check that the devices are in close proximity.
	<ul> <li>Pairing may fail if there are too many Bluetooth enabled devices in the vicinity. Once the stick reader has found 10 devices, it stops searching. Manually pair the devices (see the EID Stick Reader User Manual for details).</li> </ul>
I can't seem to establish a <i>Bluetooth</i> wireless connection between the indicator and another device.	Check the pairing instructions supplied with your device.
	• Your <i>Bluetooth</i> enabled device must be capable of being the <i>Bluetooth</i> master device. The indicator is a slave device only.
I need to enter the indicator's <i>Bluetooth</i> MAC address to pair with my device	The indicator's <i>Bluetooth</i> MAC address is displayed in the Setups menu. <i>See Bluetooth® Address</i> on page 23.
The serial connection between the indicator and an EID reader is not working	Check cable connections are secure. Tighten, if required.
	Check connections at both ends for corrosion or moisture.
	• If the connected device is not a Tru-Test EID Reader, refer to the EID reader's own user manual for further information.
The USB connection between the indicator and PC is not working	Check cable connections are secure. Tighten, if required.
	Try inserting the USB end into another port on your computer.
	Disconnect the USB cable, turn the indicator off then on.
	Re-install the Data Link software application and the USB drivers.

## 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.

### Compliance

#### FCC notice

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, 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.

#### FCC warning

*Note:* Users are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### **Industry Canada notice**

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

This device complies with Industry Canada licence-exempt 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.

#### EC declaration of conformity

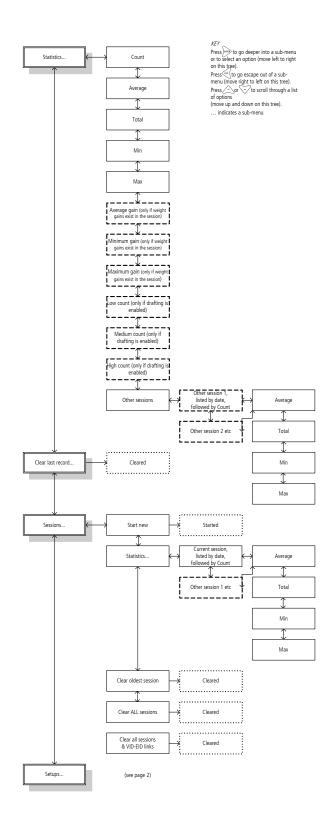


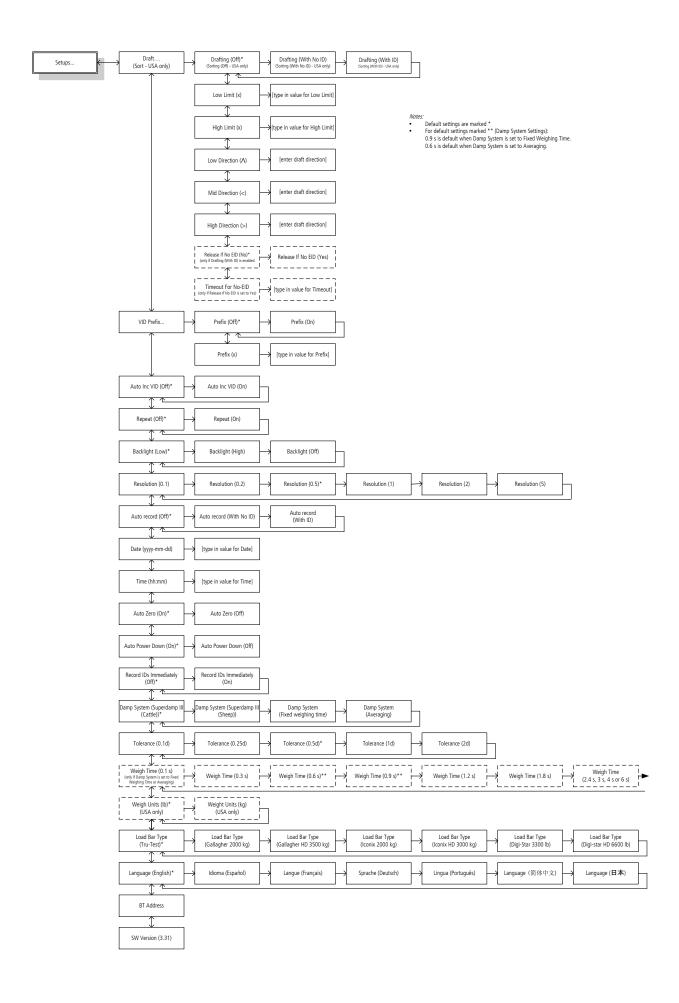
Tru-Test Limited hereby declares that the EziWeigh7 indicator is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The declaration of conformity may be consulted at http://livestock.tru-test.com/compliance.

## Specifications

Accuracy	±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 15,000
Sessions	Up to 100

## Menus





### Index

Auto Increment VIDs, 20 Auto Power Down, 22

Auto Zero, 21

Automatic recording, 21

Backlight, 21
Battery charging, 2
Bluetooth® address, 23

Bucket file. See Transferring a list of animal IDs to the indicator

Caring for the indicator, 27

Charging the indicator. See Battery charging

Comment, entering a, 4

Compliance, 27

Connecting the indicator to other devices, 11

Damp System, 22

Data Link app for Android smartphone, 18 Data Link software for PC, installing, 16 Data Link software for PC, using, 16

Data screen, 4

Date and Time setting, 21

Deleting all data on the indicator, 15

Deleting all data on the indicator using Data Link, 18

Deleting the last record, 15 Drafting example, 9 Drafting, setting up, 19

Frequently asked questions, 25

Inducting animals by recording animal IDs without weighing, 10

Installing the indicator, 3

Keypad, 4 Language, 22

 $\label{eq:maintenance.} \textit{See} \ \mathsf{Caring} \ \mathsf{for} \ \mathsf{the} \ \mathsf{indicator}$ 

Map of the menus, 29

Menu button, 4

Parts of the indicator, 1

Prefix VIDs, 20

Record IDs Immediately, 22

Record key, 4
Repeat comment, 20
Resolution, 21
Servicing, 27

Session records, managing, 15

Sessions, deleting, 15

Sessions, starting a new session, 15

Software version, 23 Sorting example, 9 Sorting, setting up, 19 Specifications, 28 Stable light, 4 Statistics, viewing, 14

Tolerance, 22

Transferring a list of animal IDs to the indicator, 16
Transferring recorded data from the indicator to a PC, 17

Troubleshooting, 25 Updating the software, 24

User interface, 4 Warranty, 27

Weighing animals and drafting (sorting) them by weight, 9 Weighing animals and entering IDs at the same time, 7

Weighing animals without entering IDs, 6

Weight gain, viewing, 5

Zero key, 4

Zeroing the scale manually, 4