# SFT

## User Manual

**WELNZ.com**
**WILLOWBANK ELECTRONICS LTD**

# Contents

# Case Contents



**Charge Cable**

**SFT PC Dongle**

**Test Block**

**PC Software Flash Drive**

# LED States

| LED State | Meaning |
| --- | --- |
| Green (single flash) | Valid test result. |
| Pink (single flash) | Below minimum g-force threshold. |
| Yellow (single flash) | Above maximum g-force threshold. |
| Red (single flash) | Invalid test result. |
| Blue (breathing) | Waiting to be connected to. |
| Blue (blinking) | Connected to device. |
| Red (solid) | Charging. |

# Operation

1.    Place the SFT perpendicular to the fruit.
2.    Press the trigger on the SFT.
    - A beep and a green light indicates a valid measurement.
    - Haptic feedback and a Red light indicates an invalid measurement.
3.    Regularly clean the SFT tip.

# Cleaning Procedure

Clean the inside of the tip and probe regularly to prevent debris entering the SFT mechanism.

1.    Remove the nose tip and probe. Clean both.



Clean the nose tip cavity

Clean the probe shaft and tip
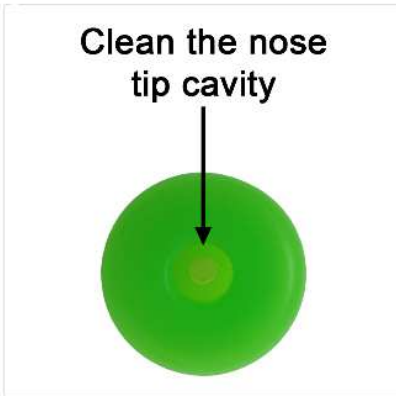
2.    Re-install the tip and probe.
3.    Fire the SFT twice to ensure the probe is seated correctly.

# Android Software

## Play Store Link



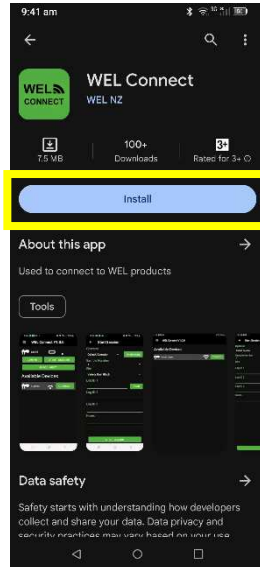https://play.google.com/store/apps/details?id=com.welnz.connect

**Note: A software license is required to use the SFT with WEL Connect for Android.**
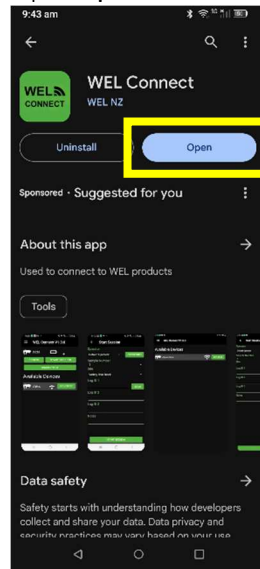
## Installation

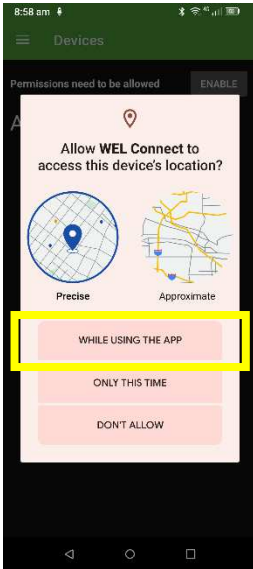1.  Search for "**WEL Connect**" in the **Play Store**  or scan the QR code above.
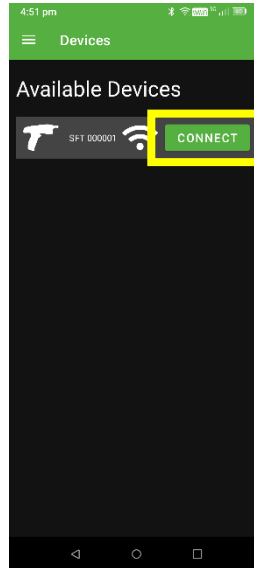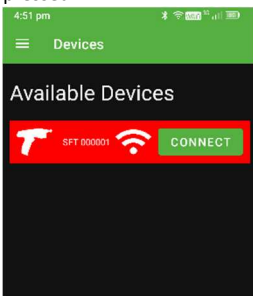
2.  Tap on "**Install**".



3.  Tap on "**Open**".
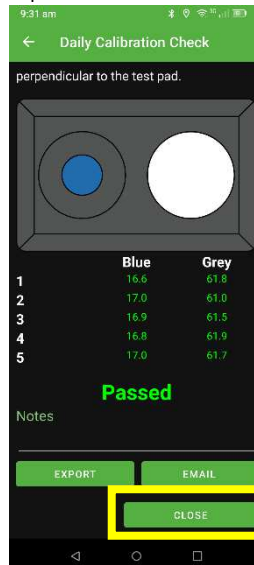
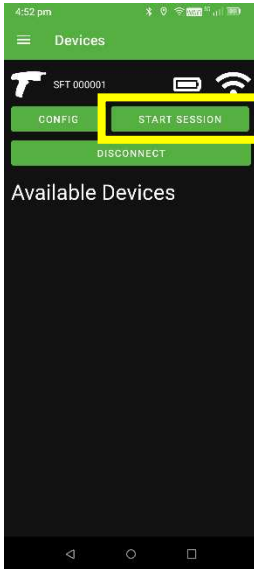4. Allow access when prompted to utilise all features of the app.



5. Press the trigger on the SFT to turn it on.
Note: The SFT will be highlighted in red momentarily after the trigger has been pressed.



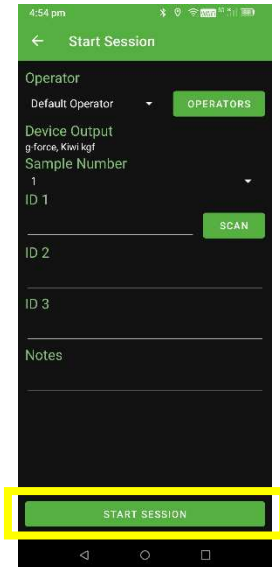6. Tap on **"CONNECT"**.



7. Complete the calibration check and fill out the fields as required.
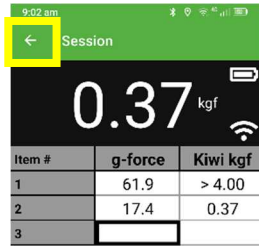**"EXPORT" or "EMAIL"** the results.
Tap on **"CLOSE"** to end.

8.  Tap on **"START SESSION"**.



10. Record measurements. To end the session, press "back button."



9.  Fill out the fields as required, then tap on **"START SESSION"**.
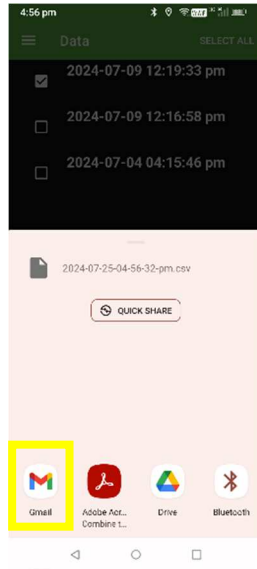


11. Once your data session is complete, tap the icon **or** slide your finger from the left to the right side of the screen to show the MENU.

12. Select **"Data"**.



13. Select the data you want to email. Tap on **"EMAIL".** Note: Tap on the recorded data to resume.
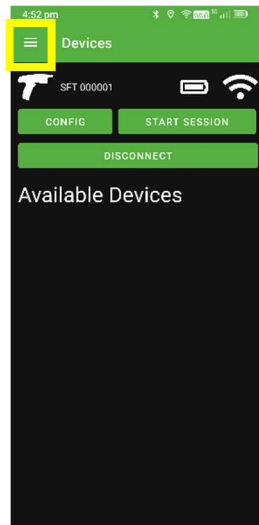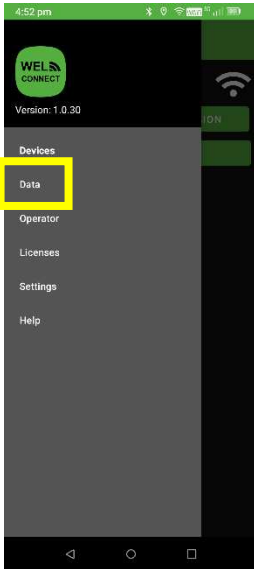


14. Select the preferred email / share app.
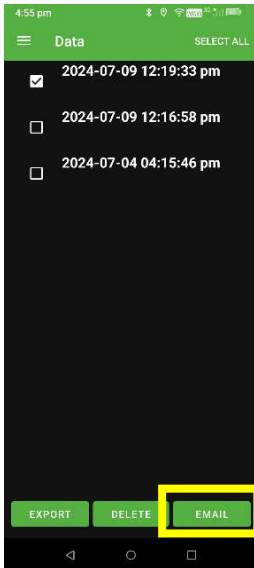


15. If using Gmail, tap send to share the data file.
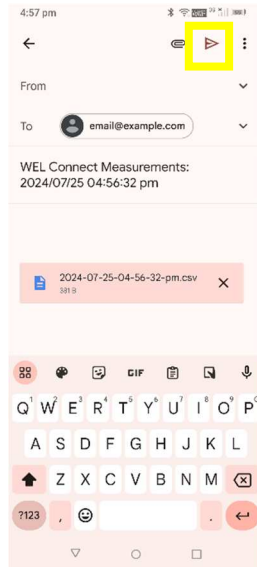
## Add License Key

If your device includes a hardcoded license, the app will automatically import the key. Otherwise, a QR code will be provided in the carry case.

1. Tap on "**Licenses**".



2. Tap on "**SCAN DEVICE KEY**".



3. Scan the QR code in the SFT carry case.

# Change Minimum and Maximum Limits

The SFT can define both minimum and maximum limits, to ensure measurements fall within a valid range. Measurements outside of set limits will not be recorded.
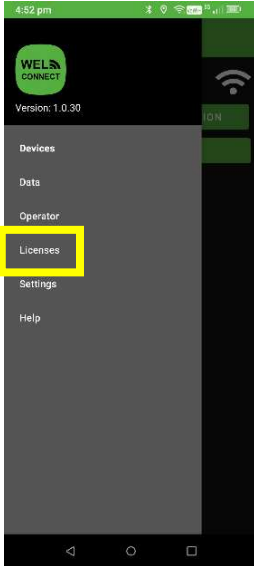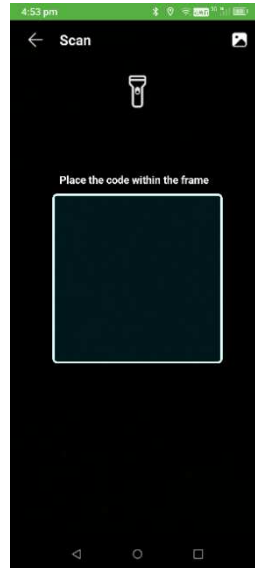
If the measurement is below the minimum value, the SFT will flash pink and vibrate.

If the measurement is above the maximum value, the SFT will flash yellow and vibrate.

1. Tap on **"CONNECT"**
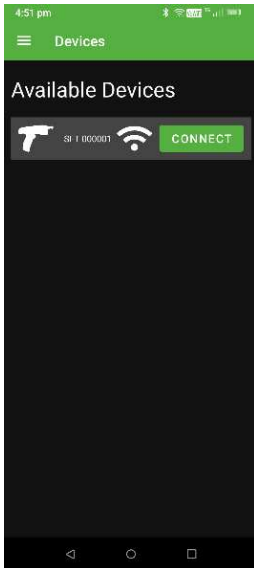
2. Tap on **"CONFIG"**
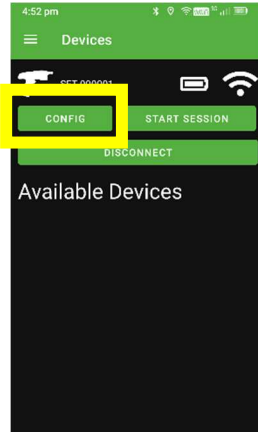
3. Edit the minimum and maximum limits. Tap on the "+" to increment the value. Tap on the "-" to decrement the value. Tap on the number to input the desired value.
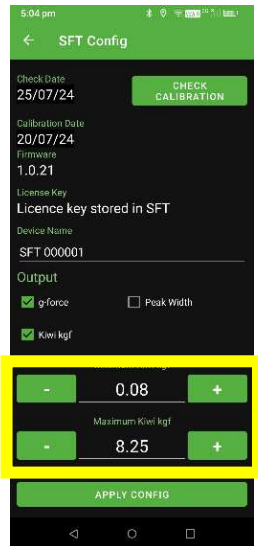
Tap on **"APPLY CONFIG"** to save the limits to the SFT.

# PC Software

## Requirements

The SFT dongle is required to use the SFT with WEL Connect for PC.



## Installation

1. Insert the flash drive included into your computer.



2. Open the flash drive.
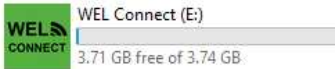


3. Double click on **"WEL Connect.exe"**.
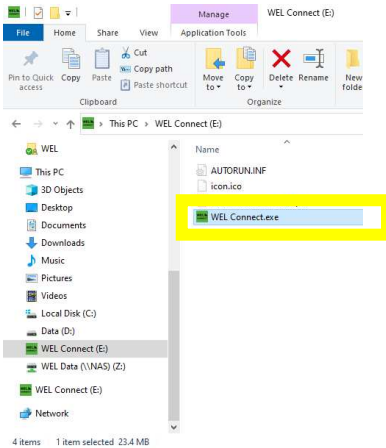


4. Click "**Next**"
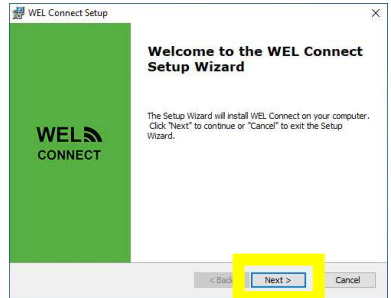


5. Click "**Install**"
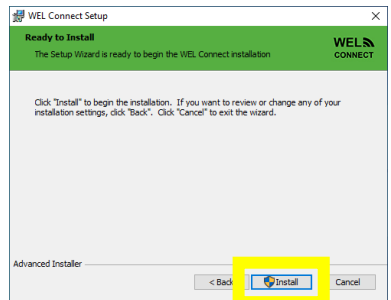


6. Click "**Yes**"
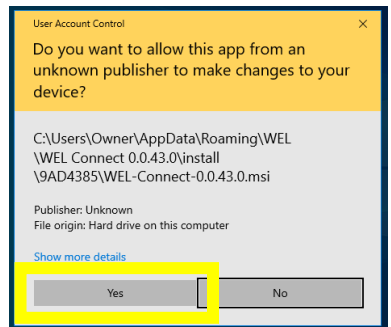


7. Click "**Install**"
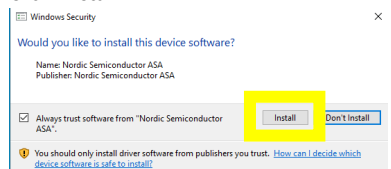
8. Click "**Finish**"
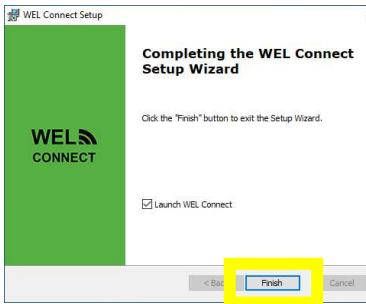


9. Insert the **"SFT Dongle"** into your computer.



10. Open the "**WEL Connect**" Software on your desktop.



11. Press the trigger on the SFT to wake it up.

12. Select the "**SFT**" from the drop down and then click "**Connect**"



13. Select the required measurement units.
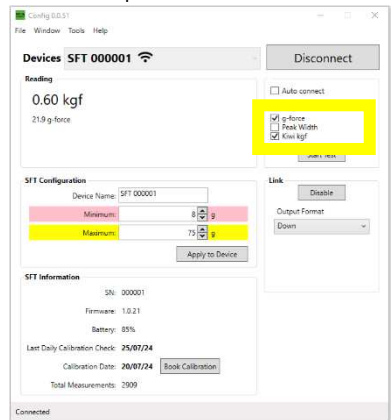


14. Click "**Enable**" and select the required output format.
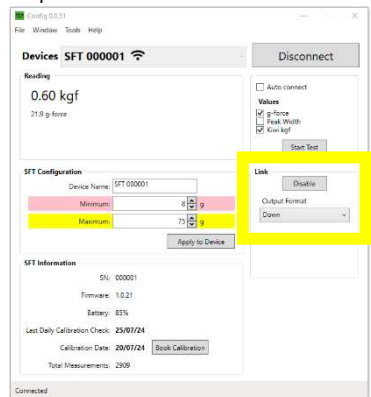


15. Open "**Excel**"

16. Click the cell that you want to insert the first measurement into.
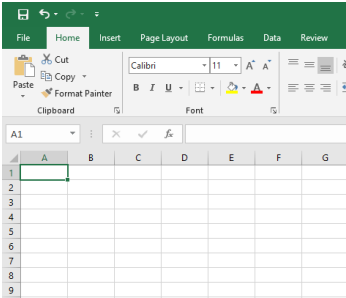


17. Press the trigger on the SFT.
    The measurement will be inserted into Excel in the nominated cell.
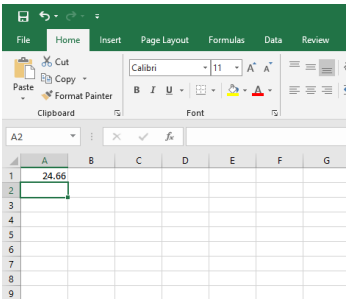
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1.  Edit the minimum and maximum limits. Click on the "+" to increment the value. Click on the "-" to decrement the value. Click on the number to input the desired value.
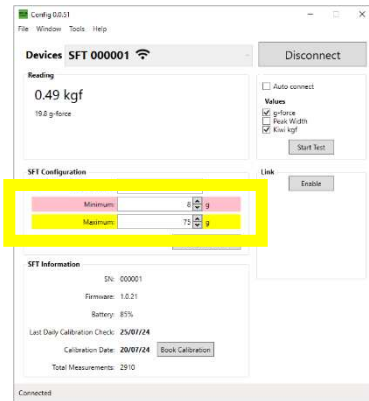


2.  Click **"Apply to Device"** to save the limits to the SFT.
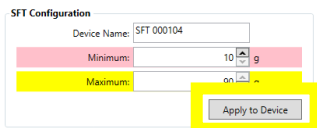
# SFT operation via Hotkey

You can use the WEL Connect software to remotely operate the SFT and collect data into Excel.

1. Select the "**SFT**" from the dropdown and then click "**Connect**".



2. Click "**Enable**"
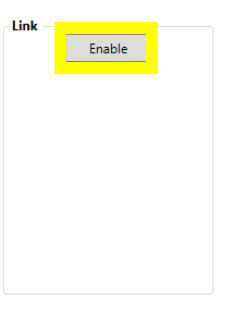


3. Click "**Settings**" in the "**File**" menu.
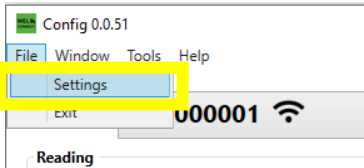


4. To change the Hotkey click into the textbox. Then press a key combination.

5. Click "**Save**" to apply settings.
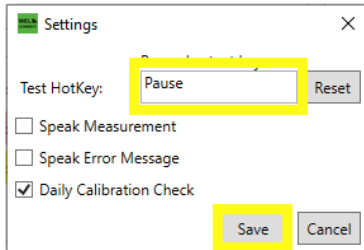


6. Open "**Excel**"



7. Click the cell that you want to insert the first measurement into.
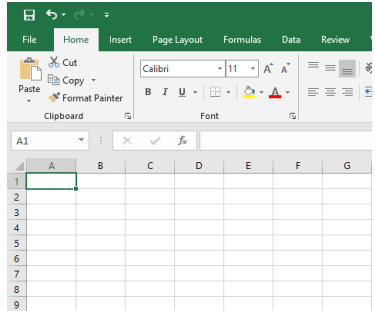


8. Press the Hotkey then the SFT will fire. The measurement will then be inserted into Excel.

# Specifications

| USB | USB 2.0 Type B |
|---|---|
| **Battery** | 3350mAh li-ion (*Rechargable*) |
| **Battery Life** | 10000 Tests   (approximately - *between charges*) |
| **Transmitter Frequency** | 2402 – 2480 Mhz |
| **Transmitter Output Power** | < 10mW |
| **SFT Weight** | 330g |
| **Box Weight** | 1650g |
| **Supported Operating Systems** | Android 7.0 and above. Windows 10 and 11. |
| | |

R-NZ  CE  FC  RoHS

**FCC Information:**

Module FCC ID:        2ALPH-E73

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.

# Warnings

This product is designed for use in dry locations only. Exposure to rain or moisture may cause damage.
Avoid operating the SFT against samples with wet surfaces.
Avoid triggering the SFT while pointing it upwards as debris may be dragged into the mechanism.

Do not expose the SFT to naked flame sources (for example, lighted candles).
Do not expose the batteries (battery pack or batteries installed) to excessive heat such as sunshine, fire or the like for long periods of time.

**Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)**

Do not dismantle, open or shred secondary cells or batteries. In the event of a cell leaking, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice. Do not use any cell or battery which is not designed for use with the equipment. Secondary cells and batteries need to be charged before use. After extended periods of storage, it may be necessary to charge and discharge the cells or batteries several times to obtain maximum performance. Dispose of properly.

# Warranty Statement and Terms and Conditions of Sale

Willowbank Electronics warrantees this product against manufacturing, electronic and electrical defect for a period of 12 months.

Warranty is provided on a "return to base" basis, freight paid by the customer.

Accepted claims will be repaired or replaced at the discretion of Willowbank Electronics Ltd or its authorized agent, providing that the equipment is being used in the manner for which it was intended.

Willowbank Electronics Ltd accepts no direct or consequential liability for any damage or losses arising from the use of this instrument other than that which is required under New Zealand Law.

In the event of any proven loss, liability shall not exceed the purchase value or upgrade value of the device.

This unit is sold under the terms and conditions of New Zealand Law.

# Contact Details:

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