**Sylvac Bluetooth Callipers - User Guide**

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**Connecting**

1. The app will automatically scan for devices the first time it is opened, if the device you want does not show up in the 10 second scan then tap the re-scan button () located in the top bar.
2. Select the device you want to connect to from the list of discovered devices.
3. The app will then try to establish a connection with the callipers, if a device pairing prompt appears, (or a BT symbol appears in the top LEFT of the screen), reset the callipers and start from (1).
4. If the connection is successful the bottom text of the “Scan” tab will display “Connection complete.”

**Troubleshooting:**

**Callipers do not show up in the list of devices:**

* Make sure Bluetooth is enabled on both devices and re-run the scan: select the ‘re-scan’ button () in the top bar of the app, The status text will display “Scanning…”.
* Alternatively try resetting the Bluetooth pairing on the callipers (Menu -> bt -> reset) and re-run the scan.
* For versions of Android over 6.0, the GPS location service of the phone may need to be enabled to show scan results “Location” in the drag down notification bar.

**Possible status error messages include:** (these will appear at the bottom of the “Scan” tab)

* “Error Connecting.” Bluetooth is not enabled or the device address is invalid. Make sure Bluetooth is on for both devices and restart the app.
* “Failed to connect.” Select the menu option “Disconnect device” and scan / connect again.
* “Connection closed.” Trying scan / connect again. Alternatively, reset the callipers and reconnect.
* “Device disconnected.” An existing connection was lost, try scan / connect to the device.
* “User disconnect.” The user selected the menu option “Disconnect device”. Scan and reconnect to the device.
* “Service discovery error.” Reset the callipers and scan / connect again.

**Bluetooth symbol continues to blink after trying to connect: no error messages.**

* Reset the callipers and try again.

**Recording Data**

**Taking a measurement:**

1. Make sure the media audio volume is turned up on the device.
2. Press the <send data> button on the callipers. This differs from device to device so check user manual. For the small set, the yellow button on the top right of the device.
3. A “beep” will play upon receiving a measurement.
4. After receiving enough measurements to complete an entry (based on the value stored in settings) a new entry will be added to the bottom of the list under the “Record” tab.
5. The value next to “CurrentID” at the bottom of the “Data” tab will increment after an entry has been completed.

**Changing the ID:**

1. Tap the number to the right of the “CurrentID” label under the “Data” tab.
2. A dialog will appear containing the current ID value.
3. Enter the desired starting ID and select “OK”. (select return on the keyboard)
4. The app will now automatically use this ID for the next record, auto increments.

**Saving data:**

1. Tap the save icon in the top bar ()
2. A dialog will be presented where you can enter in the desired filename. Note that the file extension (.csv) is automatically added.
3. Tap “Save Data” to write all records under the “Data” tab to storage.
4. A notification will appear saying “Saved data to: <location>” (defaults to /sdcard/SavedData)

**Clear all records:**

1. Select the menu icon in the top right of the title bar. (three vertical dots)
2. From the drop down select “Clear records”

**Changing the number of measurements per entry:**

Note: By default this is 3, but it pays to check before recording.

1. Select the menu icon from the top bar. (three vertical dots)
2. From the drop down select “Settings”.
3. Find the “Values per Entry” setting under the “Record Preferences” section. The summary underneath will show what the current value is.
4. Selecting the entry will bring up a dialog to change the value.
5. Select OK to confirm the change.
6. Press the “Back” button in the top bar to return to the previous screen (<-).

**Troubleshooting:**

**“no data” is displayed on the calipers:**

* Reset both devices and retry the connection.

If all else fails, reset both devices.

Clear the app from memory and re-open.

You can view you files on the device through ES File Explorer. Open ES File Explorer, swipe to the left, select the SavedData folder, all files are saved here, select the one you want to view.

If the file does not appear under windows explorer, or the data is missing at the bottom of the file, reboot the phone and it should appear.

(this is a bug with Android OS <https://code.google.com/p/android/issues/detail?id=38282> )