

SLAVED INDICATOR - SIB100

IOS APP USER MANUAL



VERSION 2.1 (MAY 12TH, 2026)

CONSIDERATIONS

- THE **SLAVED INDICATOR APP IS NOT STC APPROVED**. IT IS PROVIDED STRICTLY FOR REFERENCE TO ASSIST THE PILOT IN HELICOPTER EXTERNAL LOAD OPERATIONS. IT IS DESIGNED AS A REMOTE MOUNTED EXTENSION OF THE PRIMARY ONBOARD C39/C40 OR MSI LOAD INDICATOR
- THE SLAVED INDICATOR APP WORKS IN CONJUNCTION WITH THE AKV SIB100 BLUETOOTH MODULE ONLY.
- THE SLAVED INDICATOR APP IS DESIGNED TO WORK WITH THE IPHONE AND IPAD AND IS DISPLAYED IN LANDSCAPE VIEW ONLY. IT IS RECOMMENDED THAT AN IPAD MINI 5 - 7 OR IPHONE 10 -16 IS USED. WE ALSO RECOMMEND INSTALLING THE LATEST IOS OPERATING SYSTEM
- IPADS MUST BE CELLULAR CAPABLE WHICH WILL INCLUDE THE NEEDED GPS CHIP. IT ALSO REQUIRES THE IOS SYSTEM LOCATIONS SERVICES BE ENABLED FOR RECORDING OF THE GPS COORDINATES
- DOWNLOAD THE APP FROM THE APPLE APP STORE BY SEARCHING SALVED INDICATOR, C39, C40 OR MSI
- FOR THE AS350, MOUNTING OF THE IPAD OR IPHONE USING THE [SWISS HELICOPTER ENGINEERING \(SHE\)](#) KITS AVAILABLE FOR THE STANDARD WINDOW OR THE [MVPK](#). CONTACT SHE FOR MORE INFORMATION AT ENGINEERING@SHE-AG.CH. OTHER MOUNTS MAYBE DEVELOPED IN THE NEAR FUTURE AS DEMAND INCREASES FOR ADDITIONAL MODEL HELICOPTERS
- A USB POWER SOURCE FOR THE IPAD AND IPHONE IS RECOMMENDED AS THE INTERNAL BATTERIE IS LIMITED
- NOT AVAILABLE FOR ANDROID



CHANGE LOG

v1.0	Initial Release
v2.0	<ul style="list-style-type: none">- Improved App layout, added pinch zoom and bucket release with multi drop point ENDx. Improved "Select Data to Send" screen UI to store multiple reports with a separate "totals only" report and report preview. Improved the "FlightData.csv" recording and added file zip capability to keep email file size under 3Mb.
v2.1	<ul style="list-style-type: none">- Added requirement for Apple mail to be installed on iOS device Pg. 10 - Note 1 and Trouble Shooting section Pg. 12 - item 2- Added new "Flight Data" button for entry of user and customer data instead of an automatic pop-up when the App is opened Pg. 6- Added battery level indication on screen

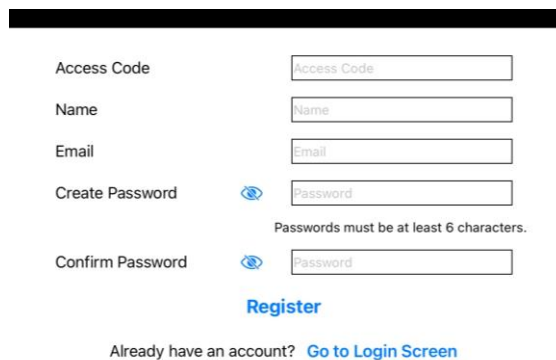
Initial setup of the App

If it is the first time installing the App then do the following, otherwise skip to [Using the App](#) on Pg. 3

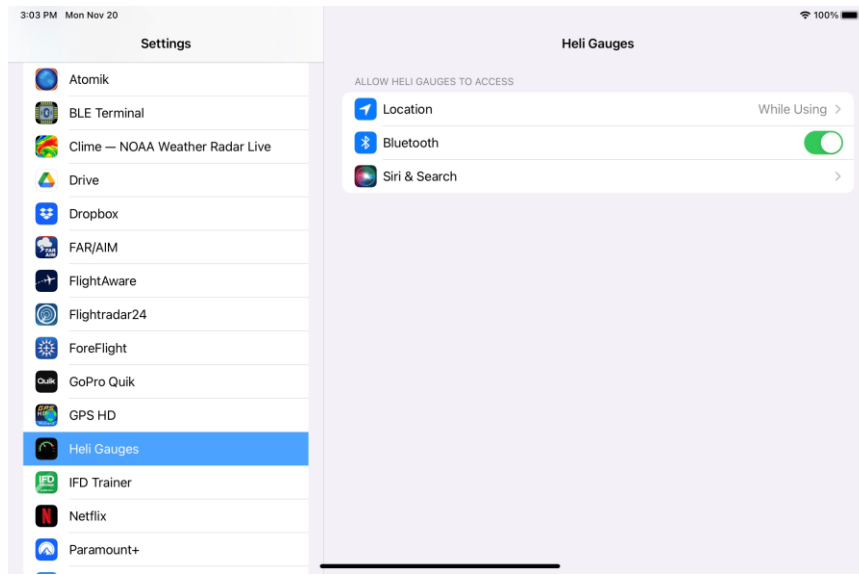
1. Download and Install the App
2. From the main screen, select the “Heli Gauges” icon



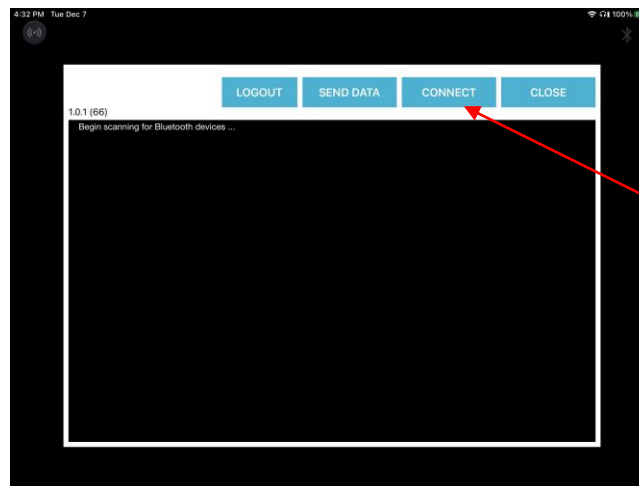
3. The following registration screen will appear after downloading the App for initial setup only.

A registration form with a black header bar. It contains the following fields: 'Access Code' with a text input box; 'Name' with a text input box; 'Email' with a text input box; 'Create Password' with a text input box and an eye icon; 'Confirm Password' with a text input box and an eye icon. Below the password fields is the text 'Passwords must be at least 6 characters.' At the bottom of the form is a blue 'Register' button and a link 'Already have an account? [Go to Login Screen](#)'.

4. Enter the following:
 - a. Access Code - **contact AKV at sales@akvinc.com for the code.** We will need your iOS [Apple ID email address](#) associated with the device. This is found in the iOS settings under the device name at the top, then select “Name, Phone Numbers, Email”
 - b. Name - Your name
 - c. Email - Your personal or company email address.
 - d. You must create a NEW App specific password. The “eye” icon when selected, allows you to see your password as you enter it. [Make sure to save this password](#) in case you log out of the App.
5. Once registration is complete and you login, the initial “connect” screen will appear. The App will ask you to allow for the iOS Bluetooth to be used, select OK.
6. Go to the iOS settings, scroll down the list of Apps and locate “Heli Gauges” and turn on Bluetooth. In addition, the **location services must also be turned on** by selecting either “while Using the App” or “Always”.



NOTE: As long as you do not log out, clicking on the Heli Gauges icon will launch the App without having to login again. If you do log out, you will need the password you created above to log back in. There is no need to log out.

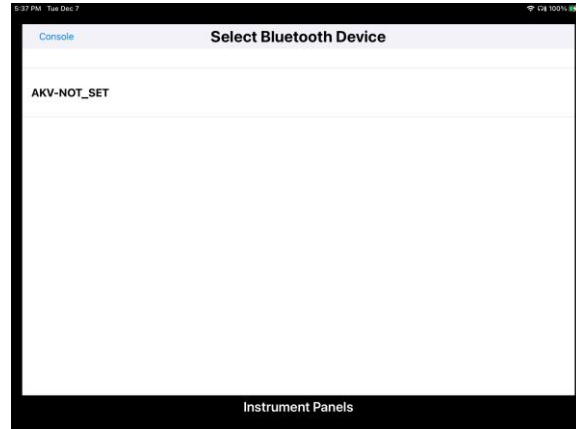


Connect to the SIB100 module

Using the App

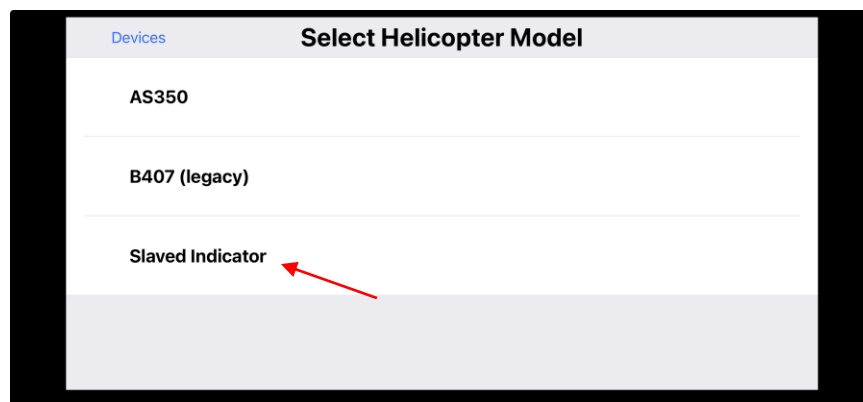
1. Turn the aircraft battery switch ON
2. After launching the App, the “Connect” screen will appear
3. Select “Connect”
4. The “Select Bluetooth Device” screen will appear and display available AKV Slaved Indicator Bluetooth devices named as “AKVSI-XXXXX (*aircraft registration*)”. The App will only display Bluetooth connections beginning with “AKVSI-” with SI standing for “Slaved Indicator”.

5. If “AKV-NOT_SET” is displayed as shown below, then the SIB100 has not been programmed with the aircraft registration. This is required. Ref to the SIB100-UIM manual to add or change the aircraft registration number.

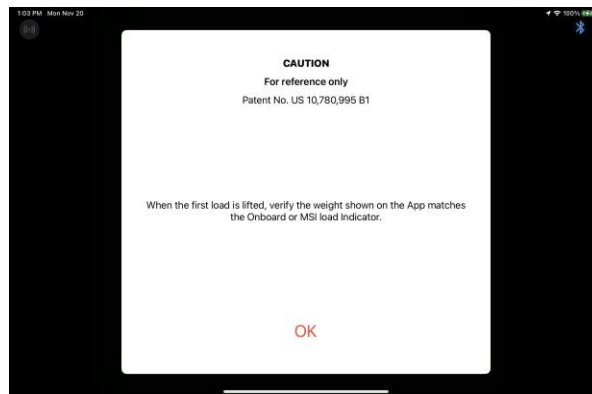


NOTE: For a new installation and when connecting for the first time, the programmed aircraft registration number may not show. If you have already added your registration number via the PC settings, then select “AKV-NOT_SET” then disconnect. It will then show your registration going forward.

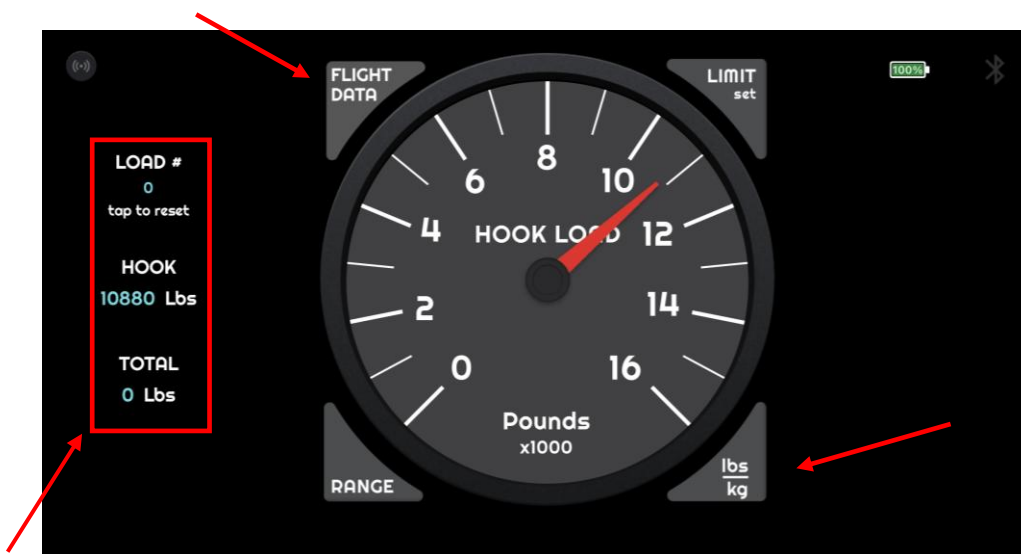
6. Select the Bluetooth “AKVSI-XXXXX” of the aircraft you’re sitting in as there may be other aircraft that are powered up next to you that are in range.
7. A helicopter model list will appear which requires you select the “Slaved Indicator” only.



- The App will ask that you accept the **CAUTION** screen that is displayed below. To accept and continue, select OK.

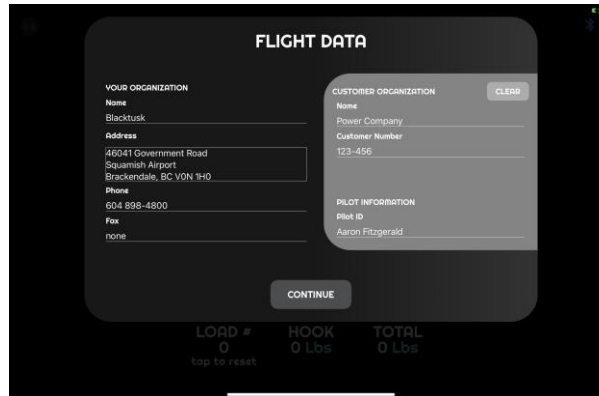


- Select “continue” which will open the gauge screen.



- The displayed “**HOOK**” value which is received from the MSI or Onboard load indicator via a wired connection to the SIB100 is then transmitted in Kg from the SIB100 to the App which can then be displayed in Lb or Kg. The signal is calibrated within the SIB100 using the PuTTY PC interface scaling factor and the AKV Load Calibration tool P/N LC-100 to match the MSI or Onboard load indicator.

11. The “Flight Data” button allows for entry of user and customer information that is displayed on the Lift Report pdf



12. The weight unit value can be changed by touching the Lbs / Kg button. This also rescales the indicator accordingly.

NOTE: The weight is always transmitted in Kg from the SIB100 by default and the App re-computes it for Lb.

13. The “**LOAD #**” is an incremental number controlled by the pilot via a momentary “Load Count” pushbutton. When the pushbutton is pressed and released, the **LOAD #** increments by “1” and the GPS coordinates are recorded. The **HOOK** weight is also then added to the **TOTAL** weight. The **LOAD #** can be reset to zero by touching the “tap to reset” but should not normally be needed since when re-connecting for the next mission, the displayed values are automatically reset to zero.

NOTE: The SIB100 is supplied with an optional “Bucket (load) Release” signal and controlled by the load release circuit. When actioned by the pilot, it will record the drop GPS coordinates as END 1, END 2 etc. If the SIB100 does not detect a bucket release signal and the weight becomes <10% of its carried weight (Kg or Lb), it will also record the drop GPS coordinates automatically. This is indicated by a * next to the End time on the Lift Report.

14. The Bluetooth connection icon is blue when connected to the SIB1000 and greyed out when disconnected.

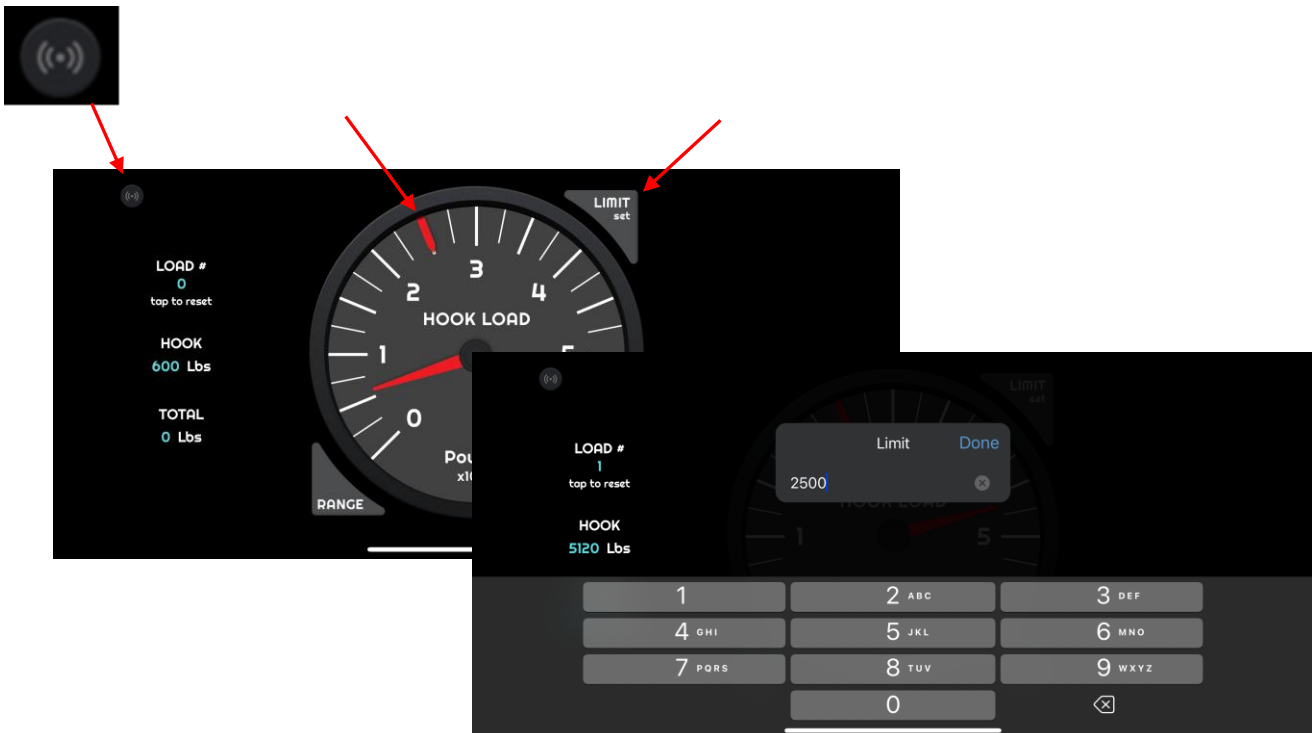


- Select the scaled range of the gauge by selecting the Range button then the range value. The range value is normally the range of the load cell. Selecting Lb or Kg will re-scale the gauge arc accordingly. If changing the weight unit, you will need to select the range again to confirm the scaled range.

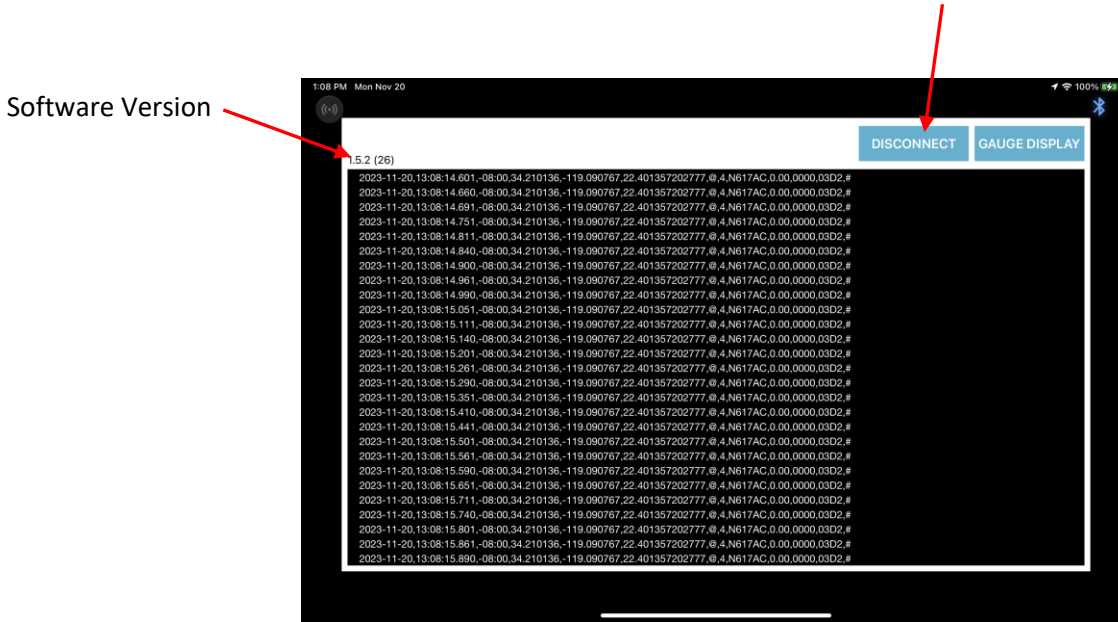
NOTE: When selecting the Lb or Kg, confirm the range is correct for your aircraft



- Select the "Limit set" button to enter a red line weight limit indication. This is the maximum weight value based on the performance limit for the aircraft mission. This value is drawn as a red line on the gauge arc. If changing the weight unit from Lb or Kg, this value will automatically change to the equivalent selected weight unit value.

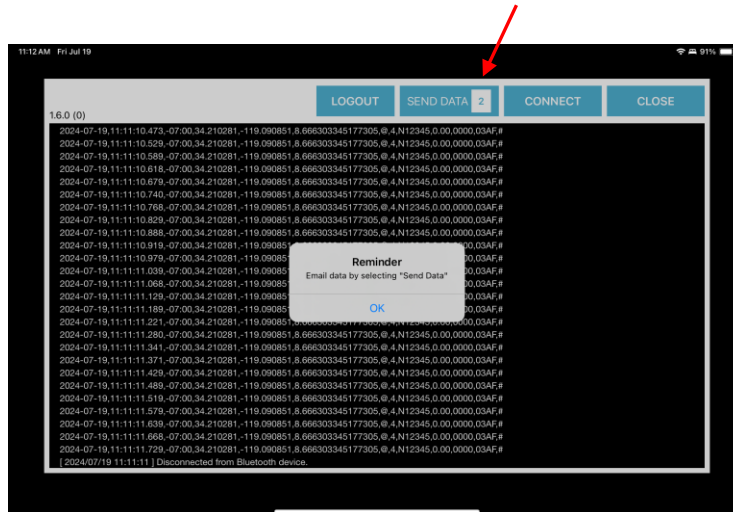


17. From the gauge screen, touching the radio button shown above in the very top left corner displays the disconnect screen below.



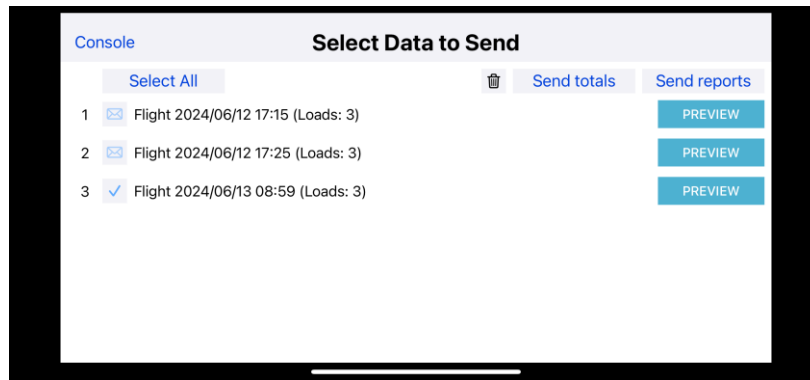
18. Live streaming data is displayed in the disconnect window area. This is a useful way to confirm Bluetooth connection is established and the SIB100 is sending data which is being received by the App. Select "Gauge Display" to return to the previous screen.

19. When "Disconnect" is selected above, it disconnects the App from the transmitted Bluetooth signal. The following screen is then displayed with the pop-up reminder to email the recorded data.




20. Selecting "Send Data" will open the "Select Data to Send" which will indicate available reports.

NOTE: A number next to the "Send Data x" button indicates there are reports to be emailed or a ~ symbol will be shown if there are none



- a. Each flight (Lift report) is numbered in sequence and is stored with the date, time and loads carried
- b. Each Lift Report can be previewed by selecting the “preview” button for the desired flight
- c. Individual Lift Reports or multiple Lift Reports can be emailed by selecting the appropriate check box(s) next to the Lift Report number, then selecting “**send reports**”
- d. You can also elect to send a “total-of-totals” only report by selecting the desired check box(s) and selecting “**send totals**”. This totalizes the selected reports and sends it as a stand-alone report without the other Lift Report data that is when using “Send Reports”

NOTE: The “Send Totals” report is also sent with “Send Reports” as standard

- e. After sending the selected report, the App will ask if you want to “Delete selected reports”. If you select OK, the selected reports are deleted. If you select cancel, the reports remain stored in the App in definitely
- f. After sending a report, the check box will indicate a letter symbol  to indicate that report has already been sent. You can resend a report even if it has already been sent before
- g. To delete a report, select the desired report(s) and select the trash bin symbol to delete

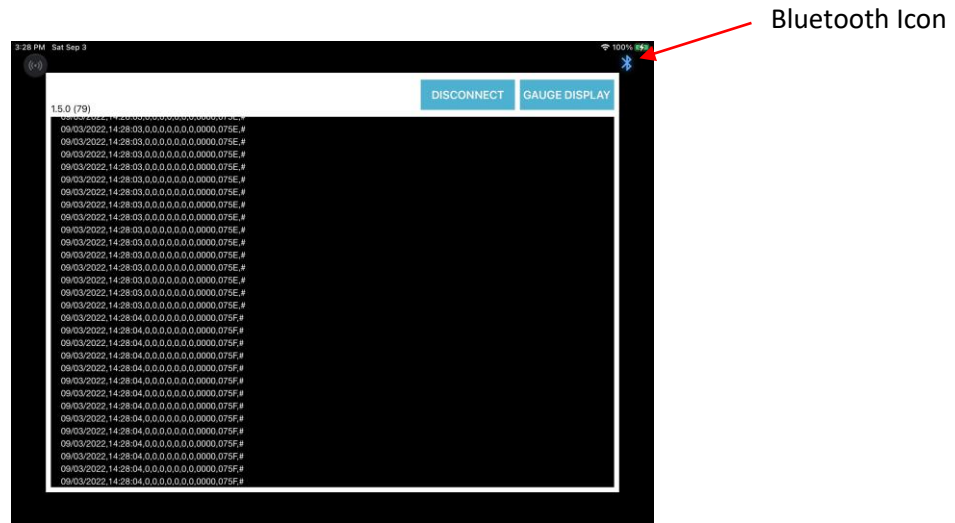
NOTE 1: To use the “Send Report” function on an iPhone or iPad, **Apple Mail** must be installed and at least one active mail account must be configured in iOS Mail settings. The user may still use Outlook, Gmail, or another app as their primary email app, but Apple Mail must be available for the report-sending function

NOTE 2: If no Wi-Fi or cellular signal is available, the sent email will remain in the email service “Outbox” until a signal is established. For additional information on the load reports, refer to the SIB100-UIM (User Interface Manual)

21. When “**Logout**” is selected, you will have to log back in to use the App again. It is therefore the reason to **store your password**. Do not logout unless required.
22. The “**Close**” button will minimize the App but not shutdown the App. Double clicking the home button and/or swiping up is the only way to shut down the App. This is typical of all iOS Apps.

NOTE: The App will stay in the forefront when other Apps are opened. This means the App will not disconnect from the SIB100 if opening other Apps.

23. The Bluetooth connection icon is blue when connected to the SIB100 and greyed out when disconnected.





Trouble shooting

1. If the App disconnects due to a poor signal or loss of power, the pop-up reminder to email the data is shown as indicated in Sect. 18. Re-connecting is possible by selecting "Connect". Disconnect issues can be related to other Bluetooth devices competing with the SIB100. Turning off other Bluetooth devices can help with issues related to repeated disconnects.
 - Location of the SIB100 and its built-in antenna relative to the location of the iPhone or iPad can have a big effect on signal strength. Installing the SIB100 on the same side as the pilot is highly recommended.
 - Check the USB power connection is good and not intermittent by looking thru the witness hole on the SIB100 module cover for a flashing green light. If no light is observed, there is no power to the device.
2. To use the "Send Report" function on an iPhone or iPad, **Apple Mail** must be installed and at least one active mail account must be configured in iOS Mail settings. The user may still use Outlook, Gmail, or another app as their primary email app, but Apple Mail must be available for the report-sending function

We are confident you will enjoy the App and we do appreciate your feedback and comments to sales@akvinc.com.

**** Please "like" the App on the Apple store...!**