



**HUB MANUAL**  
**SMART SCALE TECHNOLOGIES INC.**

**Version V260413-1**

**www.TruckWeight.com**

**NOTE: For your safety follow all manufacturer safety procedures.**

**Manual V260413-2 Private and confidential.  
Only to be used by authorized personnel. Unauthorized copies must be destroyed.**

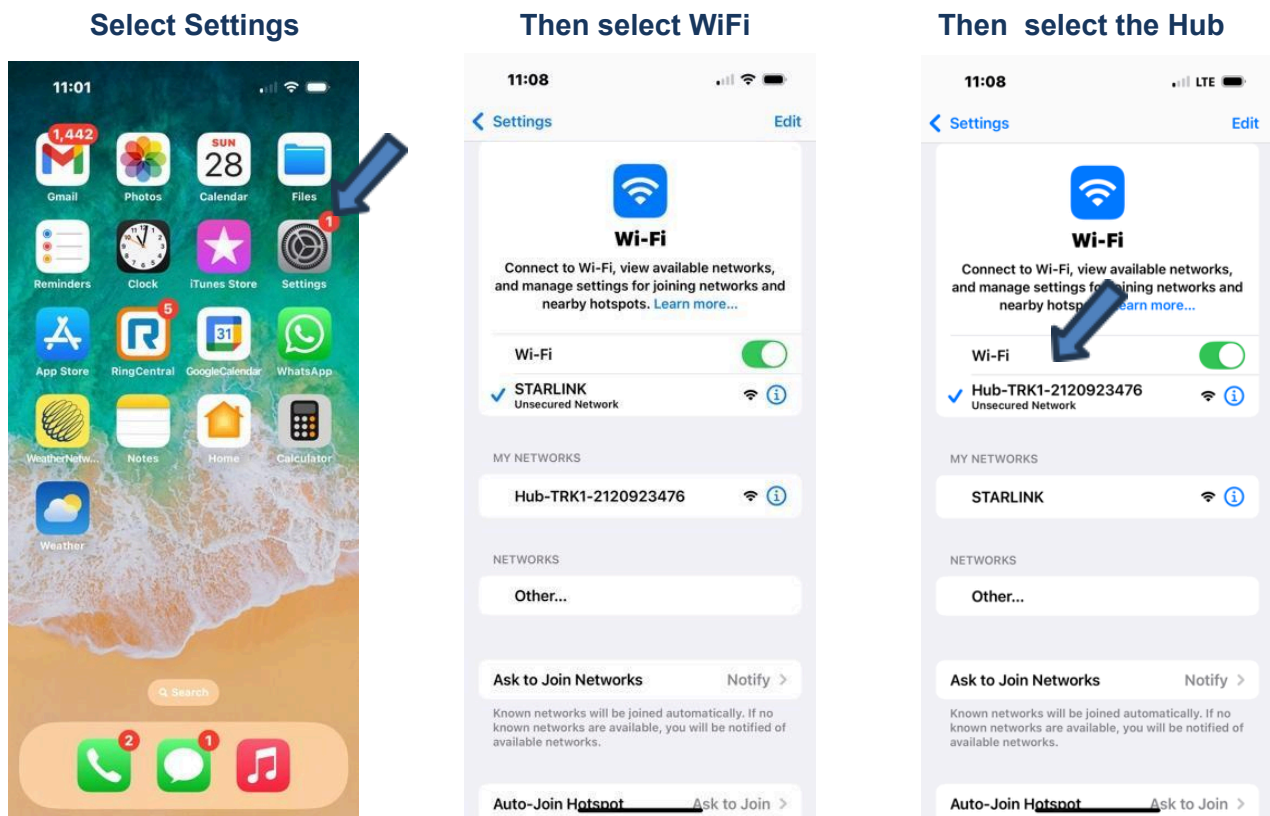
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# TruckWeight Hub Device

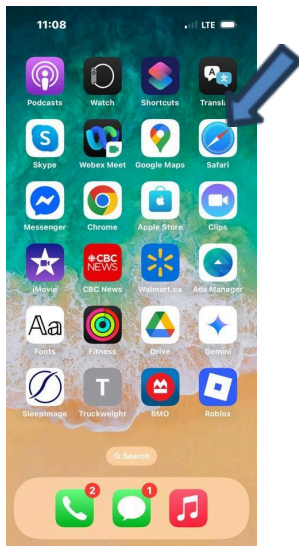
Often mounted in a truck's cab (e.g. under the dash) or outside on frame or headache rack, the TruckWeight Hub serves as a bridge between its local network of weight sensors and user connected devices (e.g. smartphone, hotspot, gateway, modem). Hubs collect data from weight sensors and transmit the aggregated weights in real-time to the any smart phone or tablet and connected devices and the cloud. Sensor communication uses the LoRa wireless protocol to achieve greater range and reliability than Bluetooth. Power Hub from Ignition wire, or running lights. HUB can handle 12-30 volt power supply. Red wire is power, Black wire is ground.

Any WiFi-capable device such as a smartphone or laptop can be used to interact with the Hub locally, or remotely using the TWA app on an iPhone, iPad, or Mac. Both local and remote access provide live weight monitoring, system configuration, firmware updates, and calibration of the two weight sensor types: Strain Gauge (Load Cell), Air Suspension (Pressure).

To connect locally to a Hub, follow the steps below to open **Settings** → **Wi-Fi**, select Hub WiFi network, and use a web browser to open the Hub Homepage. This is a direct connection and does not require internet access. Screenshots are from an Apple iPhone, but the steps are similar on Android devices.



Once connected to a Hub open your web browser and type the IP address: **192.168.4.1**



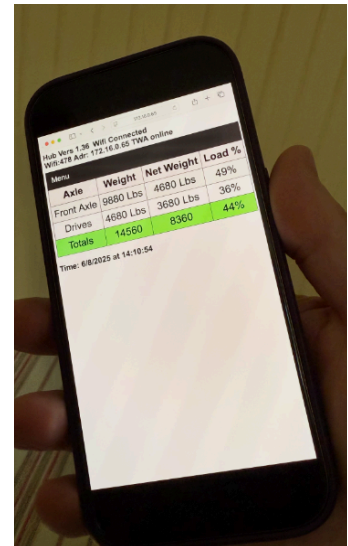
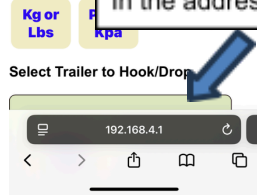
11:09  
Hub Vers 2.06 Wifi Not Connect TWA offline

Equip List: Truck: TRK1 Hooked:

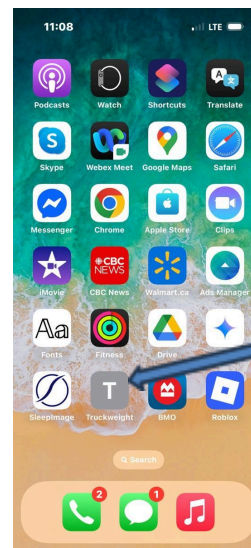
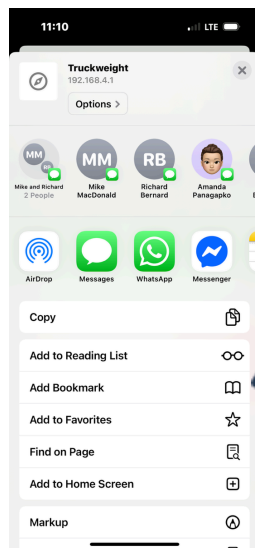
Menu			
Axle	Weight	Net Weight	Load %
Totals	0	0	0%

Time :28/9/2025 at 11:9:30

Enter 192.168.4.1  
In the address field



After the Hub Homepage loads in your web browser you can save the bookmark, including to your smartphone's home screen as an App Shortcut. This will allow you to open the Hub Homepage by simply connecting to the Hub WiFi network and then opening the shortcut.



*NOTE: Along with providing its own WiFi Access Point, a Hub can simultaneously connect to a WiFi hotspot. If your device is on this same hotspot, the Hub Homepage can be accessed through that network without the need to connect to the Hub's own WiFi Access Point.*

Using the Hub Homepage, you can calibrate sensors, configure the system, drop and hook trailers, save WiFi hotspots, update Hub firmware, and enter maximum permitted axle group weights that trigger overload alerts.

## Sensor Calibration

TruckWeight sensors are installed on axle groups to measure vehicle payload. **Strain Gauge (Load Cell)** sensors for spring suspensions deliver high durability and accurate payload measurement in all weather conditions. **Air Suspension (Pressure)** sensors are patented, low cost solutions for vehicles with air suspensions, providing accurate pressure and weight readings in all weather conditions.

### Air Sensor

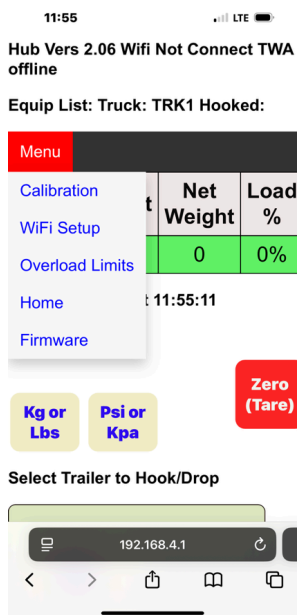


### Strain Gauge Sensor



From the Hub Homepage, you can calibrate sensors by selecting “Calibration” from the main dropdown menu and then entering empty and loaded calibration weights and pressures.

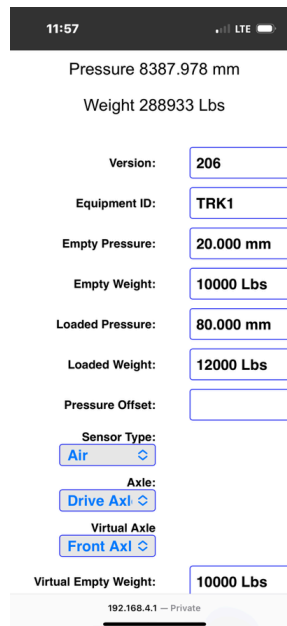
#### Hub Homepage Menu



#### Calibration Screen



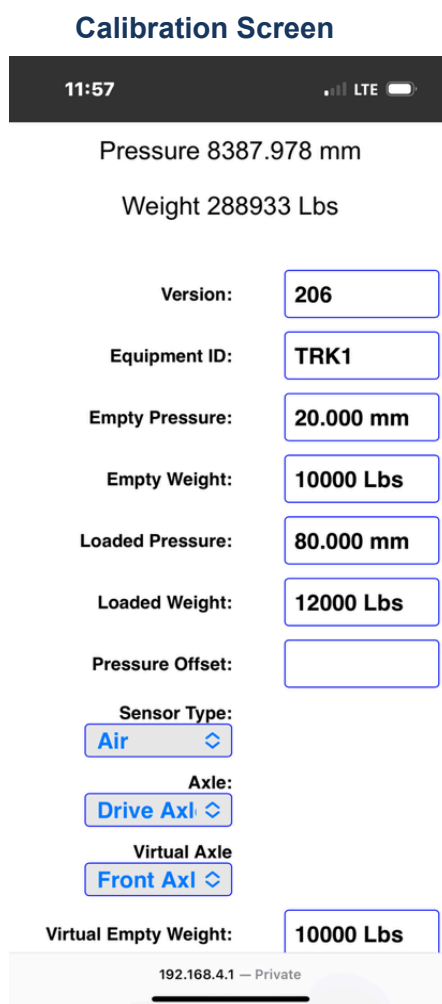
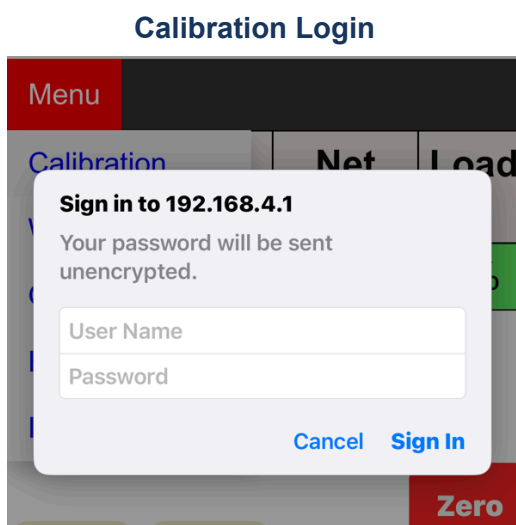
#### Selected Sensor



Enter calibration data when the truck is empty/loaded in the corresponding empty and loaded weight and pressure calibration fields. The weight measurements are procured from a certified ground scale and the PSI or Strain reading come from the sensor itself and is displayed on the Calibration page.

The Hub Calibration Screen is password protected with username **“truckweight”** and password **“11258”**. Once on the Calibration Screen you can enter calibration data values and edit Equipment ID, Axle Group (e.g. Front Axle, Drives, Trailer etc.), and Sensor Type (Air, Load Cell).

**Note, most tractors that connect to trailers use the “Virtual Sensor” for the front axle. Select Front Axle in the Virtual Axle on the Drive Sensor only within the calibration screen. If a real weight sensor is installed on the front axle, the set it to OFF.**



# TruckWeight Analytics App (TWA)

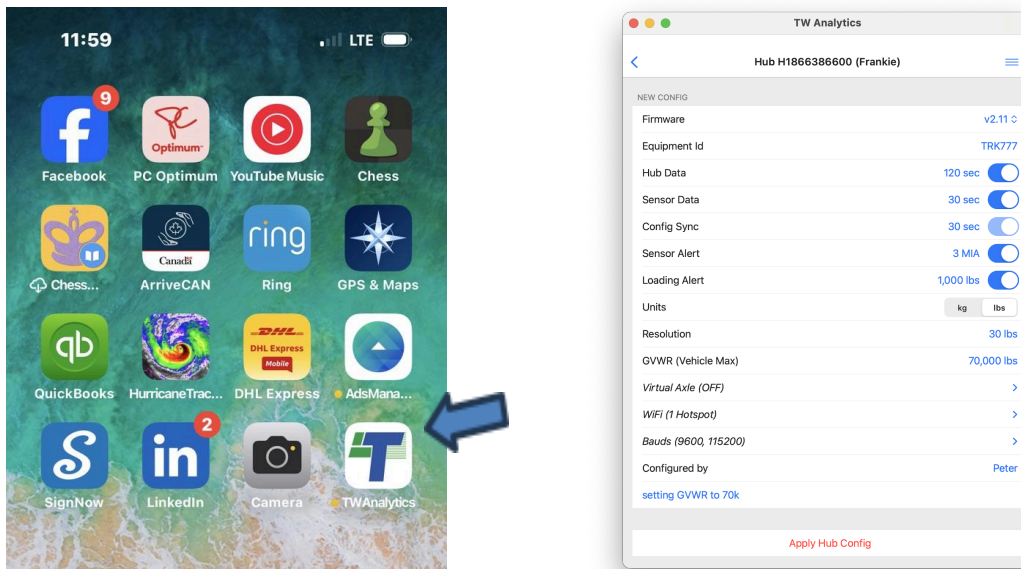
For Hubs with an internet connection, the TWA app provides real-time weight monitoring and remote fleet management including Hub Configuration, Sensor Calibration, and OTA Firmware Updates. The app also provides data mapping/visualization/export, built-in intelligence for loading/unloading/overweight alerts, and various fleet communication options.

TWA can also be used locally to access the Hub Homepage interface instead of opening it manually in a web browser. To achieve this local access, either join the same hotspot used by the Hub or else connect directly to the Hub's WiFi Access Point as described earlier in this manual. Then select *Local Connection* from any TWA app menu to open the Hub Homepage.

To install the TruckWeight Analytics app on an Apple device:

- 1 - Obtain a link from TruckWeight that will give instructions to install the app.
- 2 - You will then receive an email with a link to reset your app login password.
- 3 - Once the app is installed and you have reset your password, sign in to the app.

There is in-app help, a separate TWA Help document, and it is also encouraged to set up an online meeting for a one-on-one app walkthrough including a demo of a simulated truck.



**NOTE:** TWA runs on these or newer Apple operating systems and devices:

**iOS17:** iPhone XR, iPhone XS, iPhone 11, iPhone SE (2nd gen)

**iPadOS17:** iPadPro 11", iPadPro 12.9" 3rdGen, PadAir 3rdGen, iPad mini 5thGen, iPad 7thGen

**MacOS14:** 2017 iMacPro, 2018 MacBookPro/Mac mini, 2019 iMac/MacPro, 2020 MacBookAir

# Hub Connection Methods

