

CirrusSense™  
TDWLB, TDWLB-DL  
& TDWLB-LC  
Android Application  
User Guide



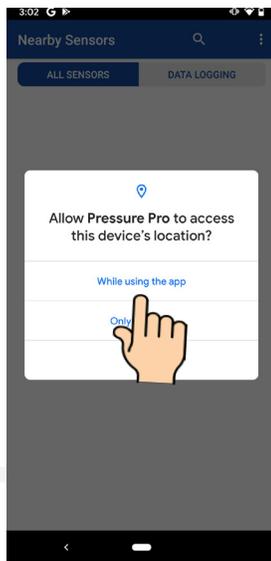
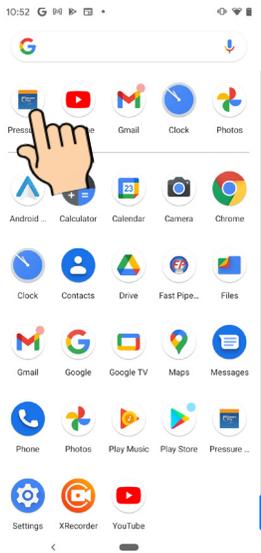
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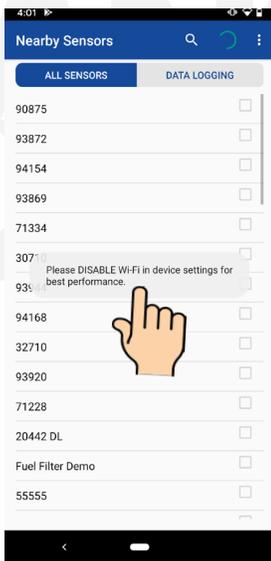
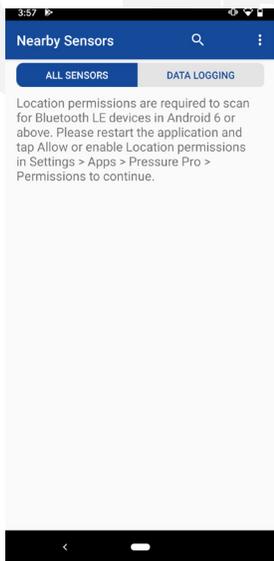


GETTING STARTED

Startup

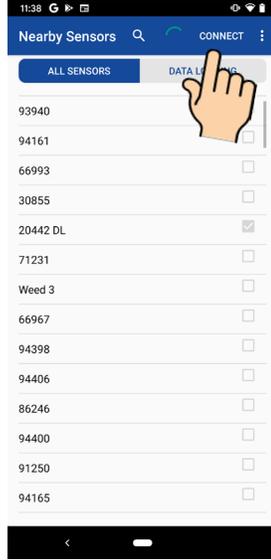
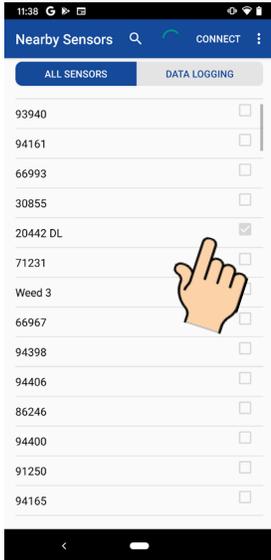


- Download the Pressure Pro app from the Google Play Store.
- Make sure that Bluetooth is turned on.
- Select the Pressure Pro icon to launch the app.
- To use app, you'll need to allow access to your device location. Select "While using this app" from the popup message.

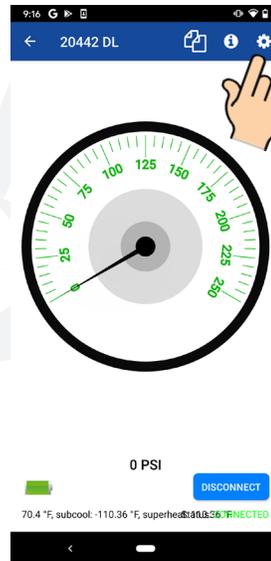
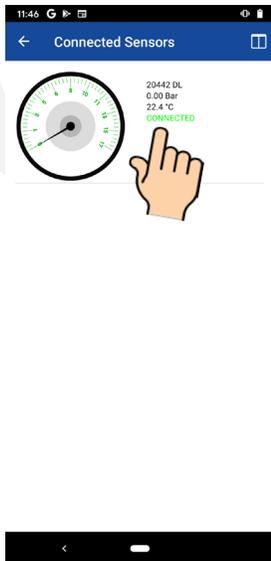


- If location permissions are not enabled, you will receive a message alerting you that location permissions are required. *You will not be able to connect to any sensors until location permissions are enabled.* Follow the instructions on the device to enable location permissions.
- If connected to Wi-Fi, a warning message appears to let you know Wi-Fi should be disabled for best performance.

## Connect

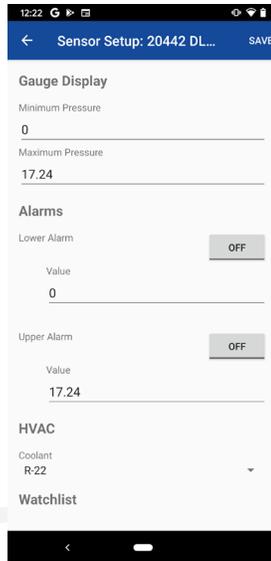
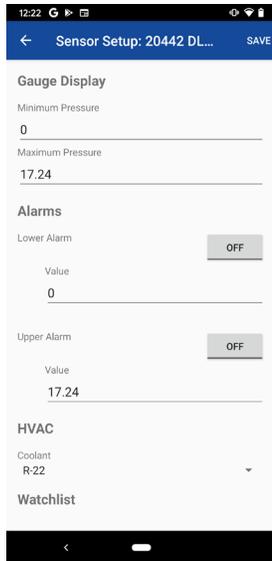


- Both standard and data logging sensors within range display in the “All Sensors” tab.
- To view datalogging sensors only (TDWLB-DL version), select the “Data Logging” tab.
- Select the sensor(s) you want to connect to. A checkmark appears in the checkbox next to each sensor selected.
- Select the “Connect” link in the upper right hand corner.

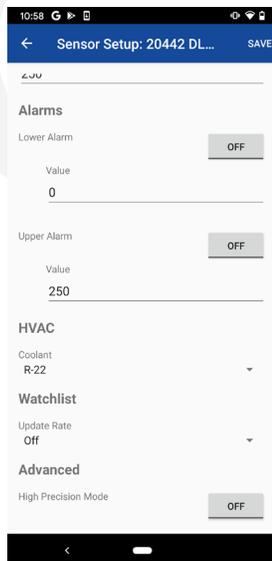


- Connected sensor(s) display on the screen.
- To view the large gauge for a single sensor, select the sensor cell.
- View sensor settings by selecting the “Gear” icon on top right of app.

## Sensor Settings



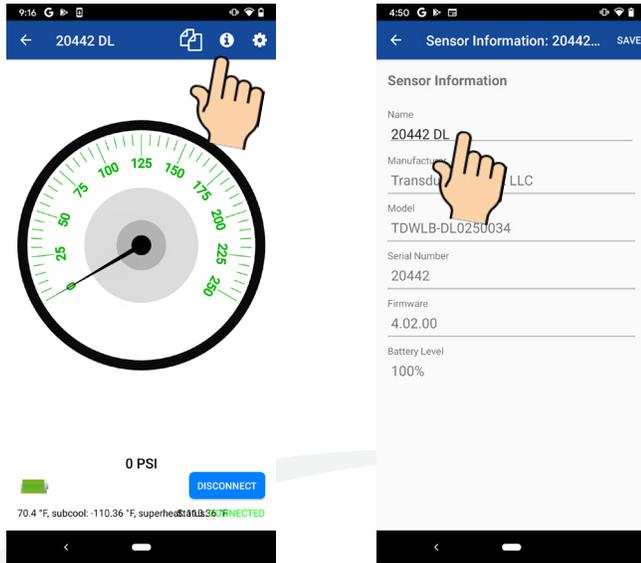
- **Gauge Display:**
  - Minimum pressure:** Typically set to zero. To read vacuum pressure on the gauge, set to the desired negative number (-14.7 typical).
  - Maximum Pressure:** Typically set at the full scale range of the sensor. For better resolution on the gauge, set the maximum pressure to a lower number.
- **Alarms:** To receive audible and visual alarms in the app, set the upper and lower alarm pressure limits. Click the “OFF” button to turn on the alarms.
- **HVAC:** When working with HVAC pressure settings, select the refrigerant you are using.



- **Watchlist: Update Rate** Unless you are using our router or watchlist mode, leave setting to Off.
- **Advanced: High Precision Mode:** Allows you to add decimal places to the digital readout. To enable, click the “OFF” button.
- Select “Save” in the upper right-hand corner to save any changes.

USING THE SENSOR

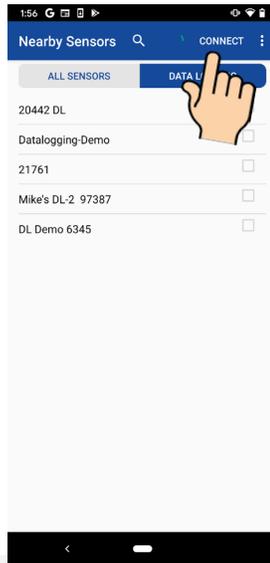
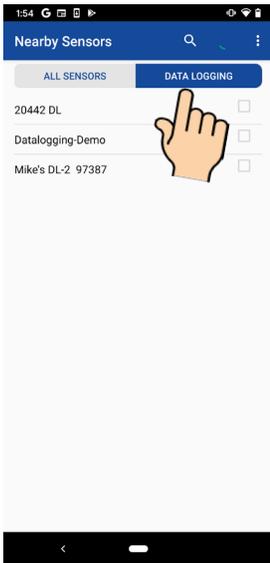
Sensor Information & Name Change



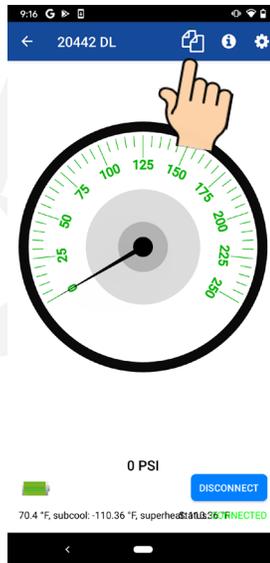
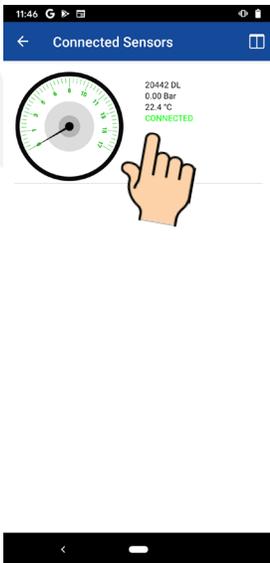
- Select the “Sensor Information” icon.
- **Name:** The default sensor name is the sensor serial number. To rename the sensor, select the sensor name line. Backspace to delete and type to rename sensor.
- Select “Save” to save a name change.
- **Sensor Specific Fields:** Manufacturer, Model, Serial Number, Firmware, and Battery Level.



DATA LOGGING

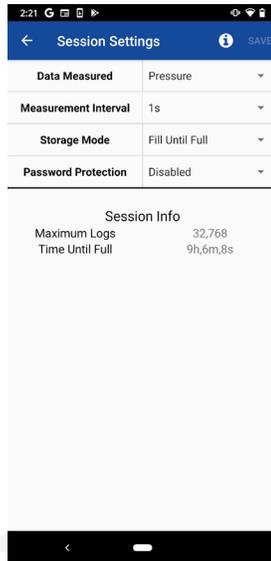
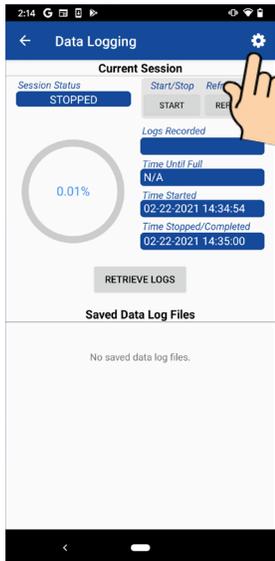


- On the Nearby Sensors screen, select the Data Logging tab to view only data logging sensors.
- Datalogging sensor(s) display on the screen.
- Select the sensor(s) you want to connect to. A checkmark appears in the checkbox next to each sensor selected.
- Select the “Connect” link in the upper right hand corner.

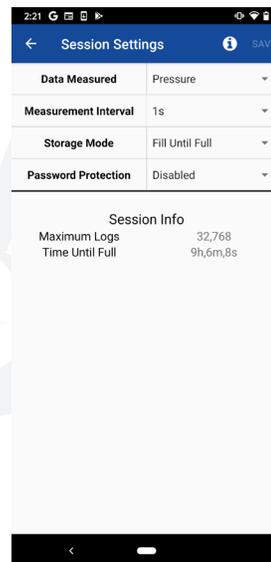
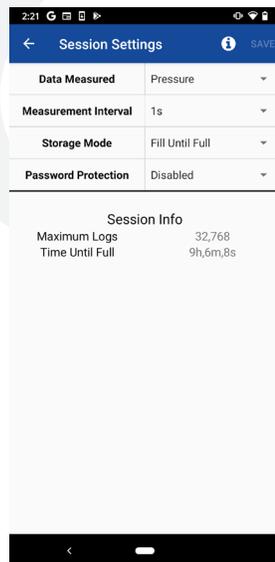


- Select sensor cell to view large gauge for a single sensor.
- Select the “Data Logging” icon (upper right) to view the current session information.

## Data Logging Settings

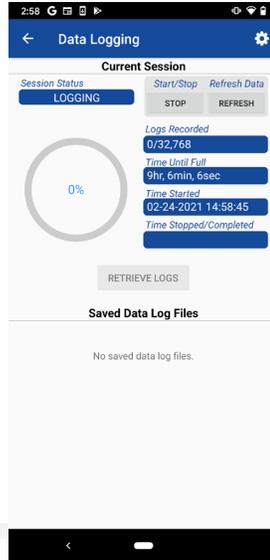
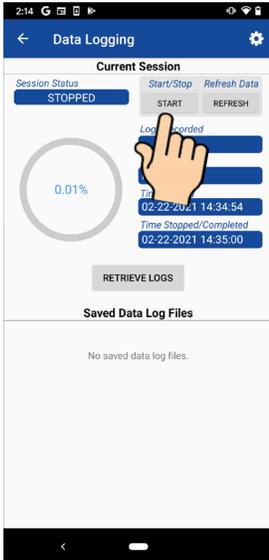


- To view session settings, select the “Gear” icon (top right).
- **Data Measured:** Select to view options.
- For sensors with a temperature probe, you have the option to record Pressure, Temperature or Pressure & Temperature. (If recording both Pressure & Temperature, the max number of logs will be reduced to half. For example, 16384 in FILL mode and 15872 in FIFO mode. The max number of logs count for Pressure only and Temperature only is 32768 in FILL mode and 31744 in FIFO mode).
- If you do not have a temperature probe, the only option is Pressure.



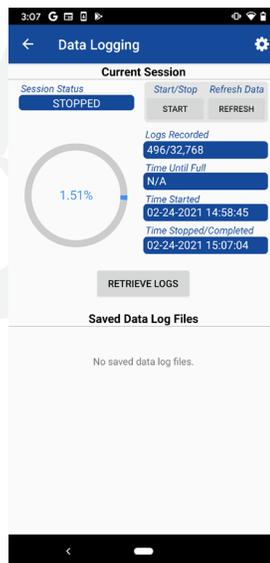
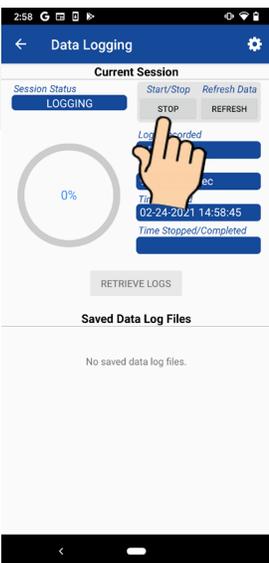
- **Measurement Interval:** Select how often the logger will record a measurement. Interval settings options range from 500 ms up to 1 day intervals.
- **Storage Mode:**  
**Fill until full:** Stores recorded measurements until memory is full and then stops automatically.  
**FIFO (First in First Out):** When memory is full, the logger will replace the oldest recording forward and continue until you stop the session.
- **Password Protected:** When enabled, you can create a password which will be required to start/stop any session on the sensor.
- **Session Info (Based on Settings):**  
**Maximum Logs & Time Until Full:** Based on the measurement interval you have selected, this will show maximum logs that can be recorded and the Time Until the memory is Full.

## Starting a Session



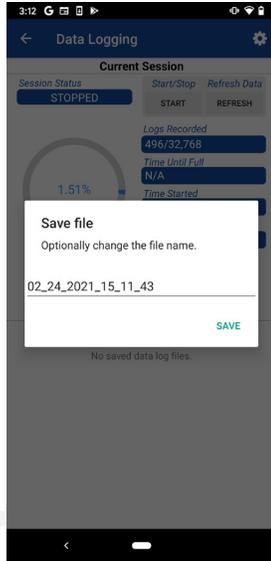
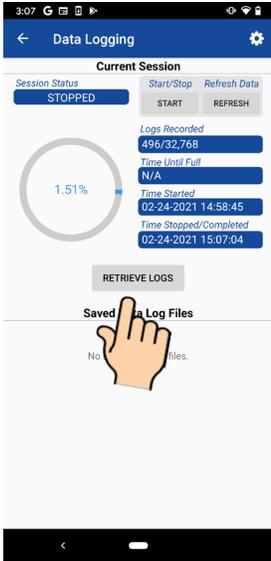
- Once your settings are completed, you can now start a logging session. Select “Start” to initiate logging. Session status will now show “Logging.”
- **Logs Recorded:** Displays the number of logs that were recorded per the maximum amount
- **Time Until Full:** Displays how long it will take until memory is full.
- **Time Started:** Displays the date and time the session was started.
- **Time Stopped/Completed:** Displays the date and time the session was stopped.

## Stopping a Session

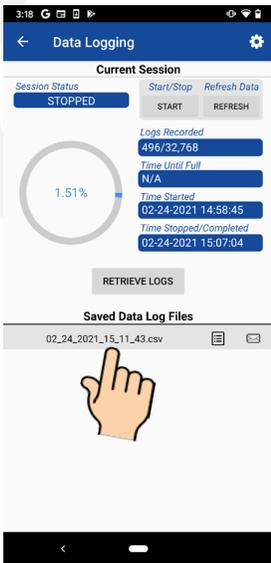
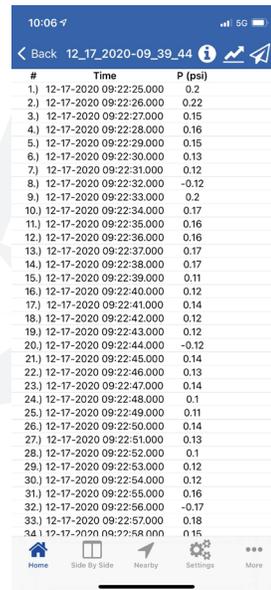


- Select “Stop” to stop the session.
- You’ll receive a “Stop Session” message. Select OK to stop the session.
- The circle graph shows the percentage of memory used.
- **Logs Recorded:** Displays the number of logs that were recorded per the maximum amount.
- **Time Started:** Displays the date and time the session started.
- **Time Stopped:** Displays the date and time the session stopped.

## Get Data Log File

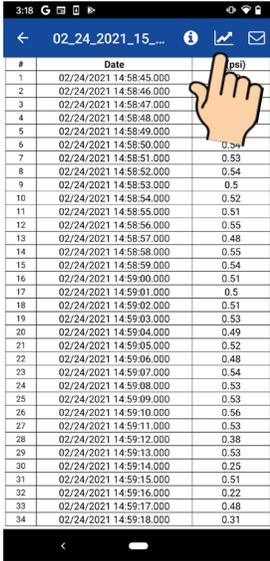


- Select “Retrieve Logs.”
- Session File Name appears with date and time stamp when the file was retrieved. You have the option to rename the file.
- Select “Save.”

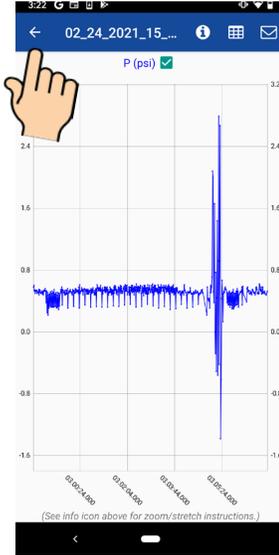



#	Time	P (psi)
1.)	12-17-2020 09:22:25.000	0.2
2.)	12-17-2020 09:22:26.000	0.22
3.)	12-17-2020 09:22:27.000	0.15
4.)	12-17-2020 09:22:28.000	0.16
5.)	12-17-2020 09:22:29.000	0.15
6.)	12-17-2020 09:22:30.000	0.13
7.)	12-17-2020 09:22:31.000	0.12
8.)	12-17-2020 09:22:32.000	-0.12
9.)	12-17-2020 09:22:33.000	0.2
10.)	12-17-2020 09:22:34.000	0.17
11.)	12-17-2020 09:22:35.000	0.16
12.)	12-17-2020 09:22:36.000	0.16
13.)	12-17-2020 09:22:37.000	0.17
14.)	12-17-2020 09:22:38.000	0.17
15.)	12-17-2020 09:22:39.000	0.11
16.)	12-17-2020 09:22:40.000	0.12
17.)	12-17-2020 09:22:41.000	0.14
18.)	12-17-2020 09:22:42.000	0.12
19.)	12-17-2020 09:22:43.000	0.12
20.)	12-17-2020 09:22:44.000	-0.12
21.)	12-17-2020 09:22:45.000	0.14
22.)	12-17-2020 09:22:46.000	0.13
23.)	12-17-2020 09:22:47.000	0.14
24.)	12-17-2020 09:22:48.000	0.1
25.)	12-17-2020 09:22:49.000	0.11
26.)	12-17-2020 09:22:50.000	0.14
27.)	12-17-2020 09:22:51.000	0.13
28.)	12-17-2020 09:22:52.000	0.1
29.)	12-17-2020 09:22:53.000	0.12
30.)	12-17-2020 09:22:54.000	0.12
31.)	12-17-2020 09:22:55.000	0.16
32.)	12-17-2020 09:22:56.000	-0.17
33.)	12-17-2020 09:22:57.000	0.18
34.)	12-17-2020 09:22:58.000	0.15

- Under “Saved Data Log Files,” you will see the current logged file. You can save a total of 3 logged files.
- To view file, select the file name.

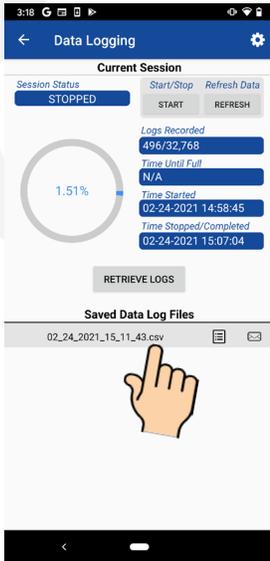


#	Date	P (psi)
1	02/24/2021 14:58:45.000	
2	02/24/2021 14:58:46.000	
3	02/24/2021 14:58:47.000	
4	02/24/2021 14:58:48.000	
5	02/24/2021 14:58:49.000	
6	02/24/2021 14:58:50.000	0.34
7	02/24/2021 14:58:51.000	0.53
8	02/24/2021 14:58:52.000	0.54
9	02/24/2021 14:58:53.000	0.5
10	02/24/2021 14:58:54.000	0.52
11	02/24/2021 14:58:55.000	0.51
12	02/24/2021 14:58:56.000	0.55
13	02/24/2021 14:58:57.000	0.48
14	02/24/2021 14:58:58.000	0.55
15	02/24/2021 14:58:59.000	0.54
16	02/24/2021 14:59:00.000	0.51
17	02/24/2021 14:59:01.000	0.5
18	02/24/2021 14:59:02.000	0.51
19	02/24/2021 14:59:03.000	0.53
20	02/24/2021 14:59:04.000	0.49
21	02/24/2021 14:59:05.000	0.52
22	02/24/2021 14:59:06.000	0.48
23	02/24/2021 14:59:07.000	0.54
24	02/24/2021 14:59:08.000	0.53
25	02/24/2021 14:59:09.000	0.53
26	02/24/2021 14:59:10.000	0.56
27	02/24/2021 14:59:11.000	0.53
28	02/24/2021 14:59:12.000	0.38
29	02/24/2021 14:59:13.000	0.53
30	02/24/2021 14:59:14.000	0.25
31	02/24/2021 14:59:15.000	0.51
32	02/24/2021 14:59:16.000	0.22
33	02/24/2021 14:59:17.000	0.48
34	02/24/2021 14:59:18.000	0.31



- To view the logged data in a graph, select the “Graph” icon in the top right.
- To email the graph, click the “Email” icon in the top right corner.
- Select the “Back Arrow” icon to go back to the Data Logging screen.

### Deleting a Saved Data Log File



**Data Logging**

Current Session

Session Status: STOPPED

Logs Recorded: 496/32,768

Time Until Full: N/A

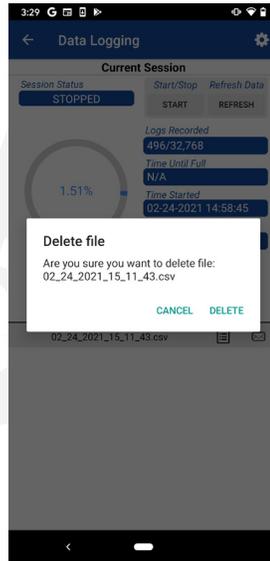
Time Started: 02-24-2021 14:58:45

Time Stopped/Completed: 02-24-2021 15:07:04

RETRIEVE LOGS

Saved Data Log Files

02\_24\_2021\_15\_11\_43.csv



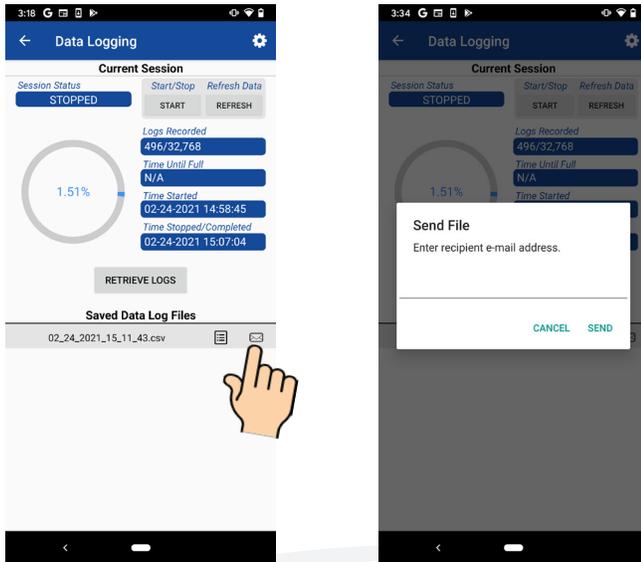
**Delete file**

Are you sure you want to delete file:  
02\_24\_2021\_15\_11\_43.csv

CANCEL DELETE

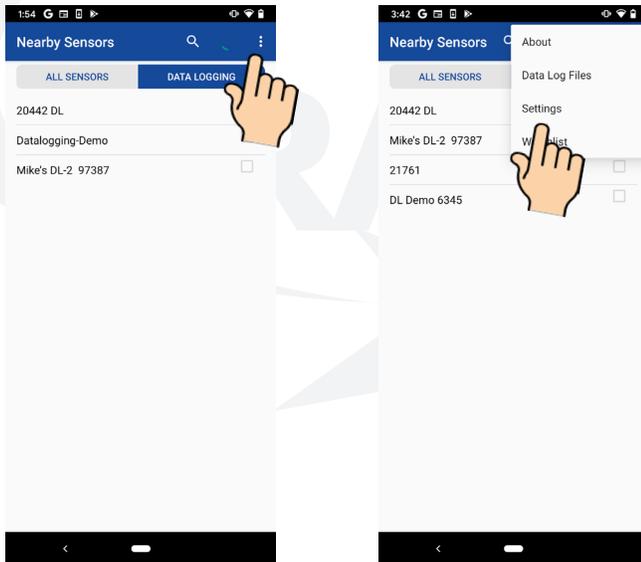
- Select the saved data log file you want to delete and swipe left.
- Select “Delete” to delete the logged file.

## Emailing the Logged File

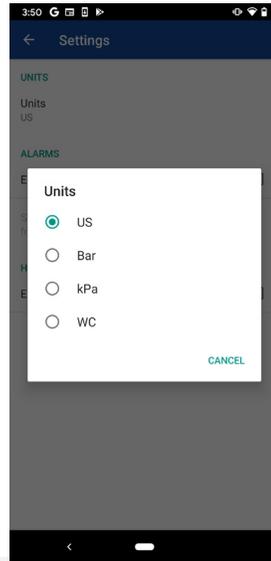
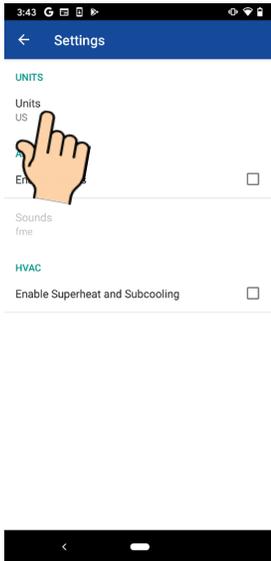


- While on the Data Logging Session Screen, you have the option to email the logged file. Click the “Email” icon to the right of the logged file name.
- Enter email address and press Send.
- You can also email the Data Log file while in the Saved Data Log list screen by selecting the “Email” icon from the top right of the screen.

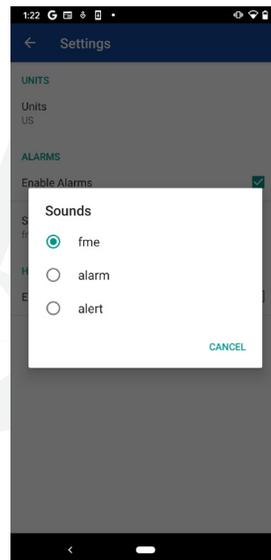
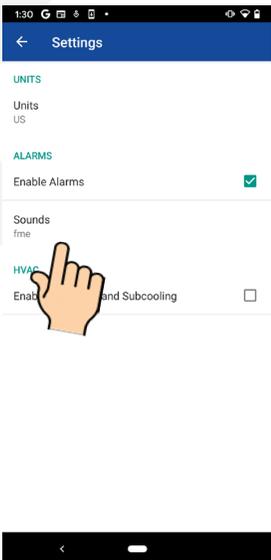
## Settings



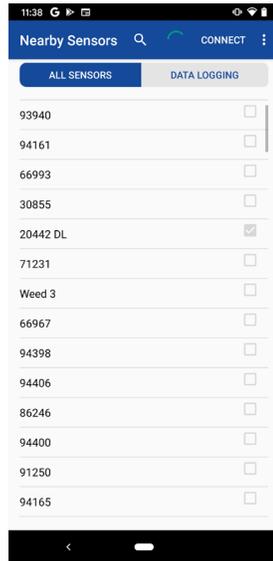
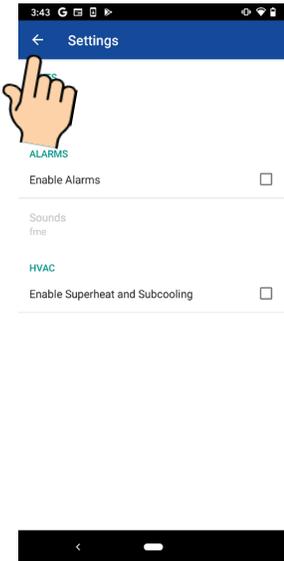
- To view settings, select the “Vertical Ellipsis” icon (top right).
- Select “Settings” from the dropdown menu.



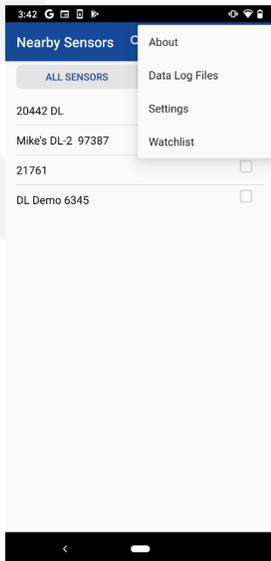
- **Units:** To change the units, select “Units.”
- Displays the units of measure for pressure, which will automatically select either Celcius or Fahrenheit for temperature.
- The US (United States) setting is psi. The WC (Water Column) setting is inches of water column



- **Enable Alarms:** Select to enable alarms that were created on the Sensor Setup screen. (To access the Sensor Setup Screen, click the “Gear” icon while on the large gauge screen).
- **Sounds:** With “Enable Alarms” selected, select “Sounds” and choose from 3 different alarm sounds.
- **HVAC:** When working with HVAC, you can enable superheat and subcooling.

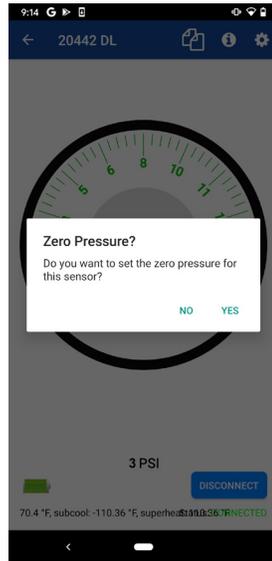
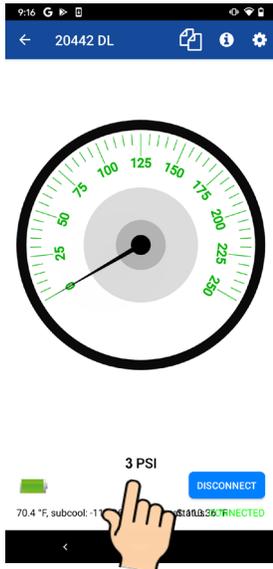


- Select the “Back” icon to go back to the “Nearby Sensors” screen.



- To view additional data, select the “Vertical Ellipsis” icon (top right).
- **About:** Select to view app version and Transducers Direct’s contact information.
- **Data Log Files:** Select to view a list of saved log files stored on one or more sensors. Files can be viewed without being connected to the sensor.
- **Watchlist:** This is where you can set up a watchlist for viewing multiple sensors simultaneously.

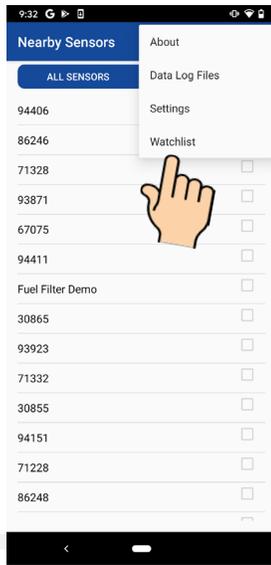
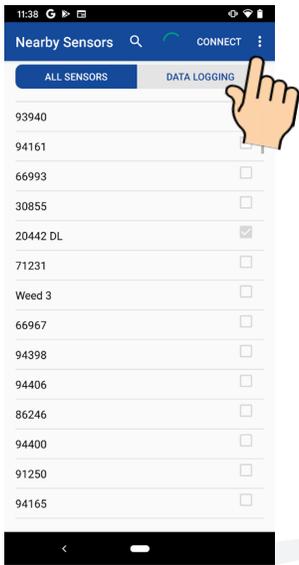
## ZERO/TARE FUNCTION



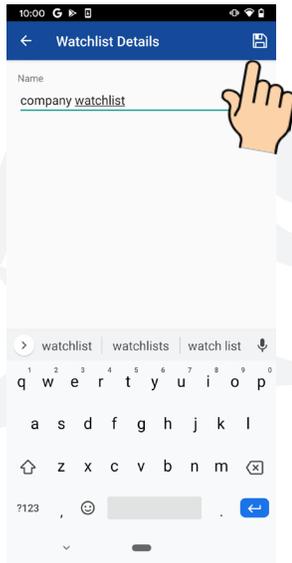
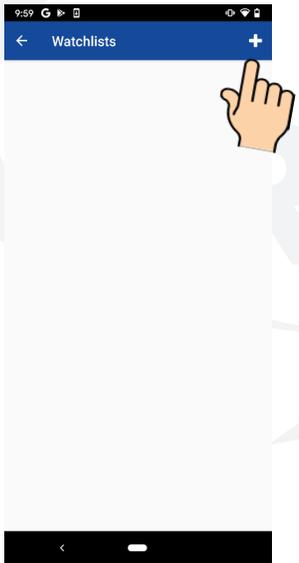
- Tap the number of the reading.
- Select “Yes” to set current reading to zero.
- Select “No” to cancel zero/tare.

**TRANSDUCERS**  
*direct*<sup>®</sup>

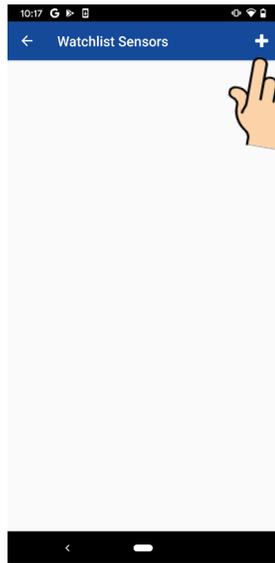
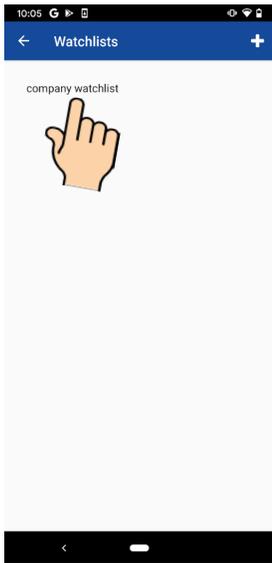
SETTING UP A WATCHLIST



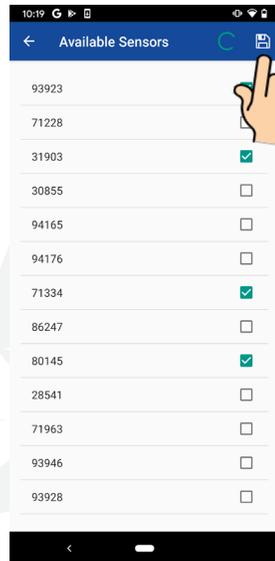
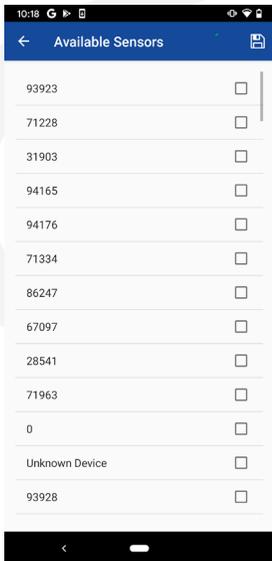
- A Watchlist is used for viewing multiple sensors (up to 6 sensors can be viewed in the normal mode simultaneously). A watchlist is used for viewing more than 6.
- Select the “Vertical Ellipse” icon.
- Select “Watchlist.”



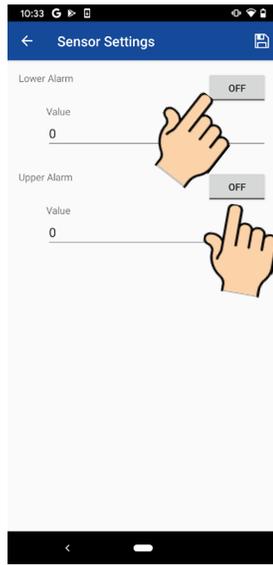
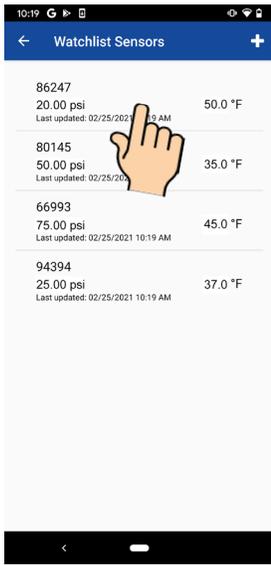
- Select the “+” sign in the upper right-hand corner of the next screen.
- Select the “Name” field and create a name for the Watchlist.
- Select “Save.”



- To add sensors to the watchlist, select the watchlist name.
- Select the “Plus” icon.

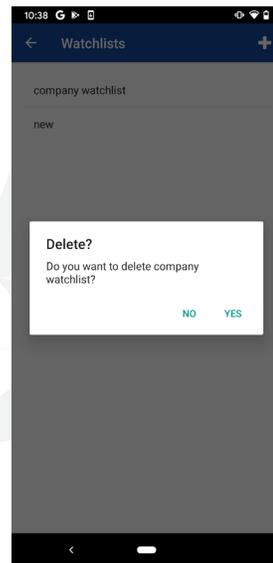
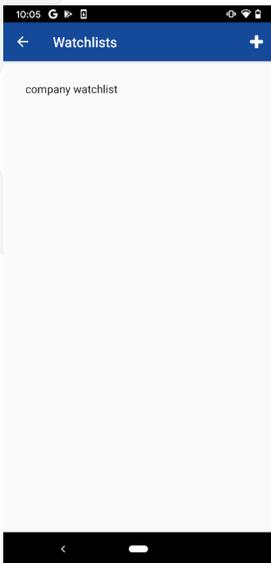


- A list of available sensors display.
- Select each listed sensor (a green check mark will appear next to each selected sensor).
- Select the “Save” icon in upper right-hand corner.



- Each sensor now appears displaying pressure and temperature readings.
- To view or modify sensor settings, select the sensor.
- To delete a sensor from the Watchlist, swipe left.
- **Alarms:** To receive audible and visual alarms in the app, set the upper and lower alarm pressure limits. Select the “OFF” button next to each alarm setting to turn on the alarm.

### Deleting a Watchlist



- To delete a Watchlist, select the Watchlist name and swipe left.
- Select Yes to delete the Watchlist.