

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



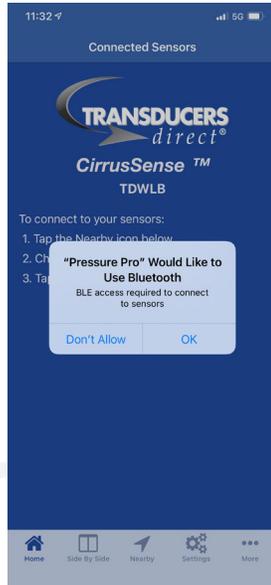
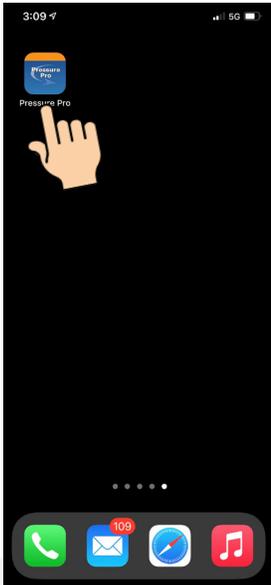
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GETTING STARTED

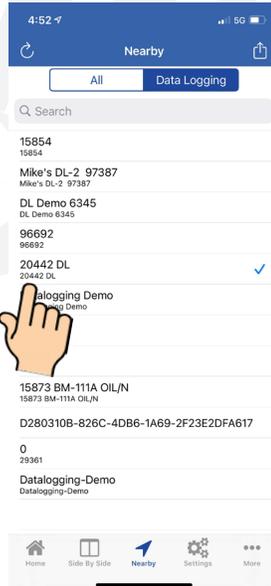
Startup



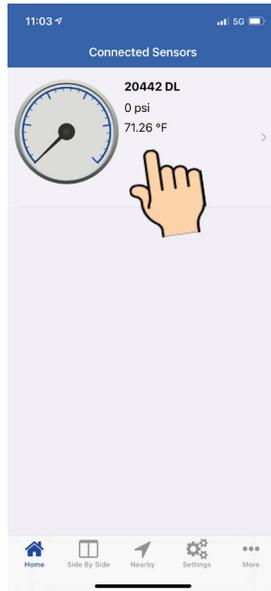
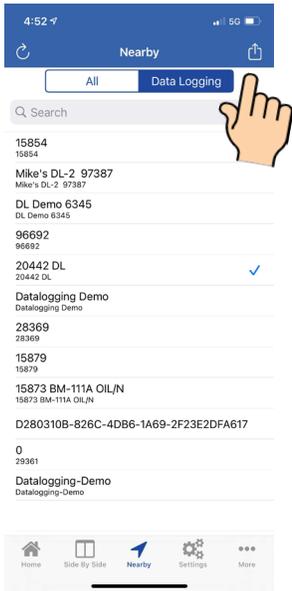
- Download the Pressure Pro app from the app store.
- Select the Pressure Pro icon to launch the app.
- Click “OK” to allow the app to connect via Bluetooth.

Bluetooth prompt occurs only once after downloading the Pressure Pro app.

Connect

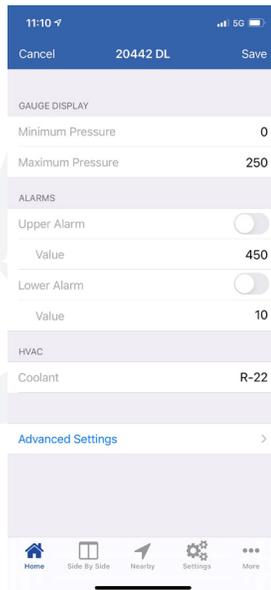
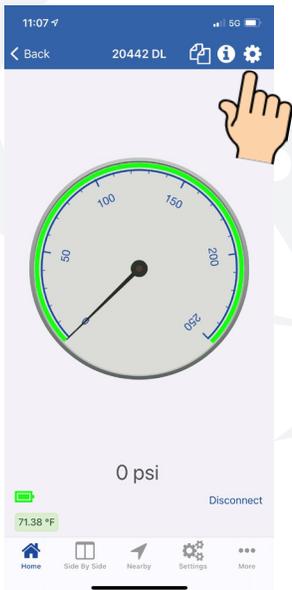


- Select the “Nearby” icon at the bottom of device.
- All TDWLB sensors within range appear in a list.
- To refresh the list, select the “Circular Arrow” on the top left.
- To view both standard and datalogging sensors, select the “All” tab.
- To view datalogging sensors only (TDWLB-DL version), select the “Data Logging” tab.
- Select the sensor(s) you want to connect to.



- Select the “Connect” icon in the upper right corner of the screen.
- Connected sensor(s) display on the screen.
- To view the large gauge for a single sensor, select the sensor cell.

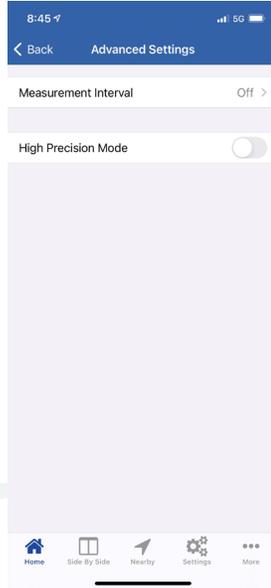
Sensor Settings



- View sensor settings by selecting the “Gear” icon on top right of app.
- **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.
- **HVAC:** When working with HVAC pressure settings, select the refrigerant you are using.

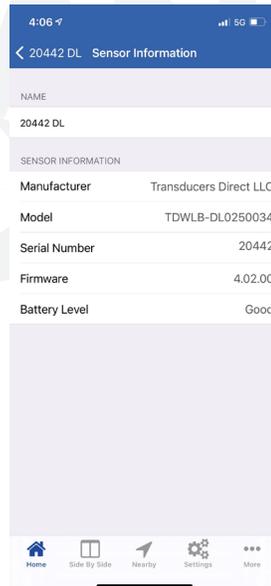
USING THE SENSOR

Advanced Settings



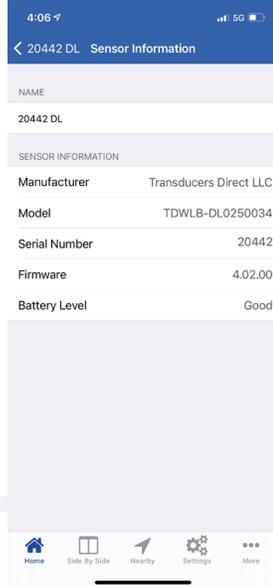
- Select “Advanced Settings.”
- **Measurement Interval:** Unless you are using our router or watchlist mode, leave setting to Off.
- **High Precision Mode:** Allows you to add decimal places to the digital readout.

Sensor Information



- Select the “Sensor Information” icon.
- **Name:** The default sensor name is the sensor serial number. You can rename the sensor by typing in a new name.
- **Sensor Information:** Displays sensor specific information.

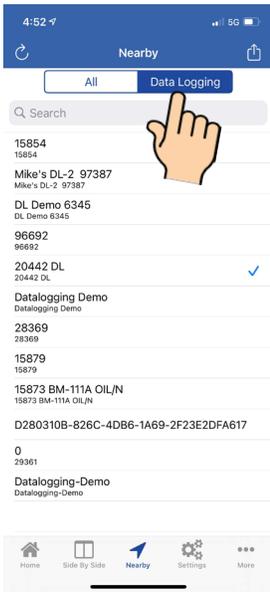
Sensor Name Change



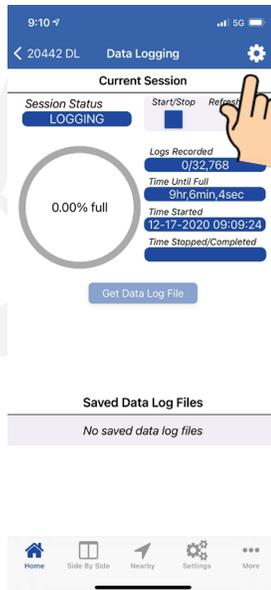
- Select the “Information” icon.
- Select the sensor name bar.
- Backspace to delete and type to rename sensor to your specifications.

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DATA LOGGING

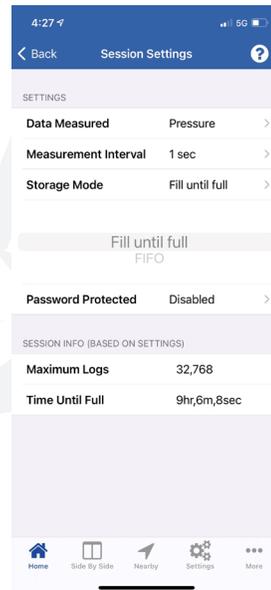
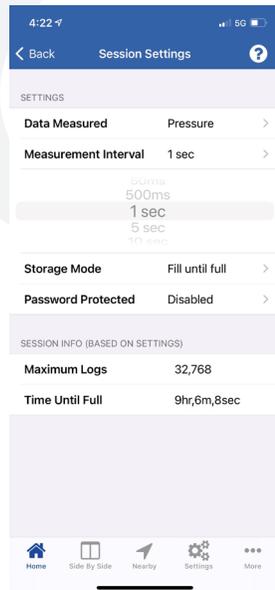


- On the Nearby screen, select the Data Logging tab to view only data logging sensors.
- Select the sensor(s) you want to connect to.
- Select the sensor cell to view large gauge for a single sensor.



- Select the “Data Logging” icon (upper right) to view the current session information.
- To view session settings, select the “Gear” icon (top right).

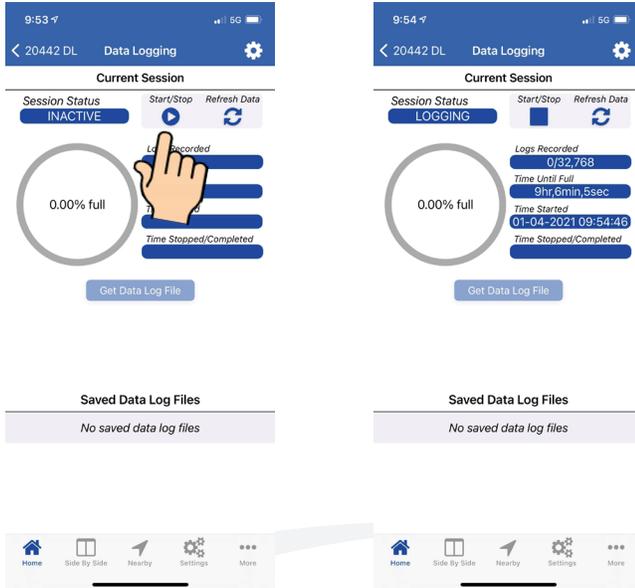
Data Logging Settings



- **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.

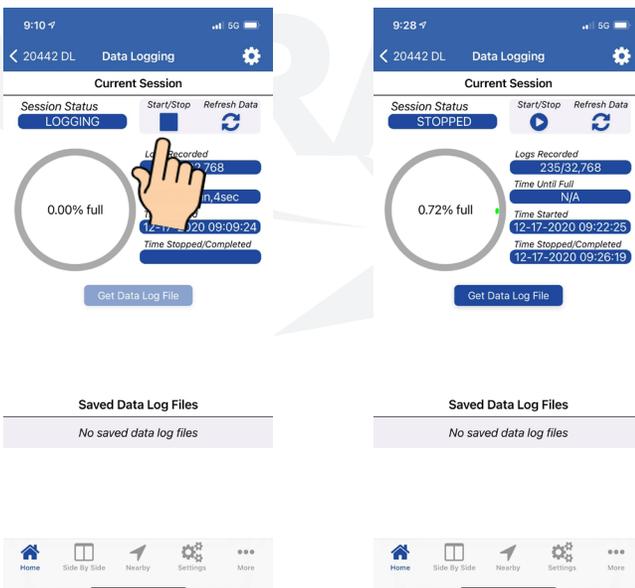
- **Measurement Interval:** Select how often the logger will record a measurement. Interval settings options range from 50 ms up to 1 day intervals.
- **Storage Mode:**
 - Fill until full:** Stores recorded measurements until memory is full and then stops automatically.
 - FIFO (First in First Out):** 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



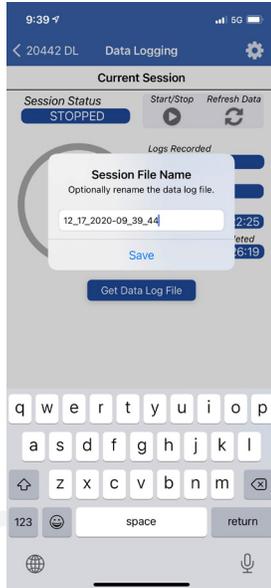
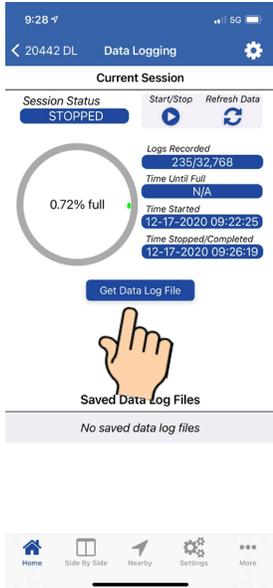
- Once your settings are completed, you can now start a logging session. Select “Start” to initiate logging. Session status will now show “Logging.”
- **Logs Recorded:** Displays the number of logs that were recorded per the maximum amount
- **Time Until Full:** Displays how long it will take until memory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

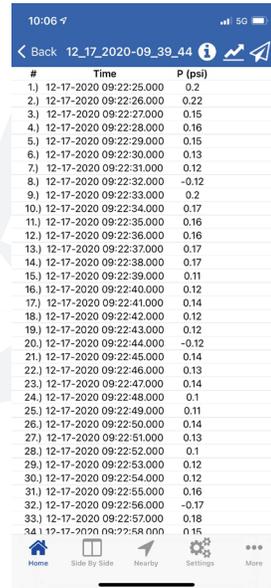
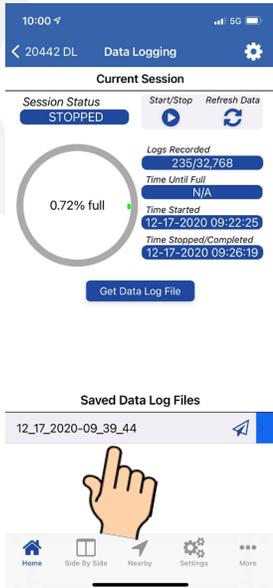


- Select “Stop” to stop the session.
- The circle graph shows the percentage of memory used.
- **Logs Recorded:** Displays the number of logs that were recorded per the maximum amount.
- **Time Started:** Displays the date and time the session started.
- **Time Stopped:** Displays the date and time the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

Get Data Log File



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



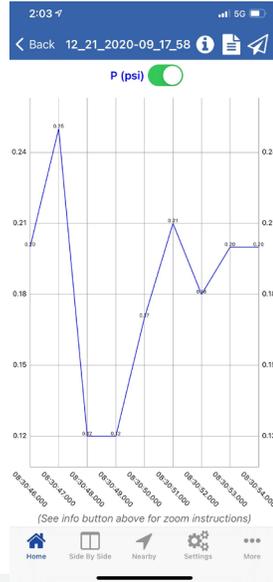
- Under “Saved Data Log Files,” you will see the current logged file. You can save a total of 3 logged files.
- To view file, select the file name.

10:06

Back 12_17_2020-09_39_44

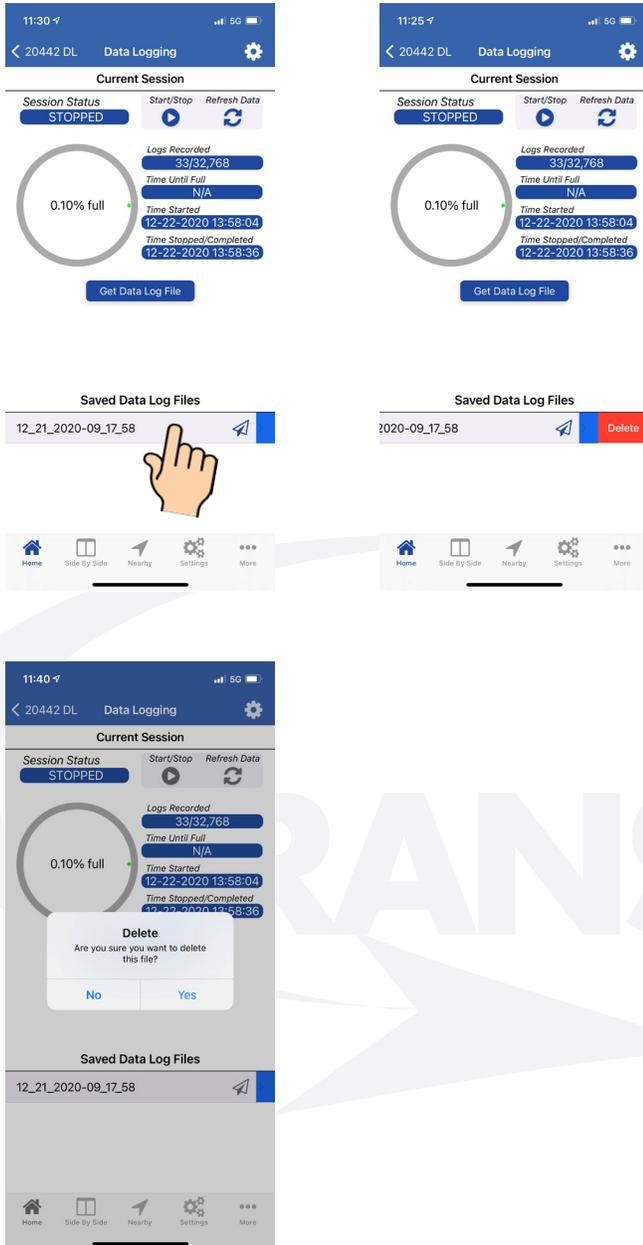
#	Time	P (psi)
1.)	12-17-2020 09:22:25.000	0.2
2.)	12-17-2020 09:22:26.000	0.2
3.)	12-17-2020 09:22:27.000	0.15
4.)	12-17-2020 09:22:28.000	0.16
5.)	12-17-2020 09:22:29.000	0.15
6.)	12-17-2020 09:22:30.000	0.13
7.)	12-17-2020 09:22:31.000	0.12
8.)	12-17-2020 09:22:32.000	-0.12
9.)	12-17-2020 09:22:33.000	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

Home Side By Side Nearby Settings More



- To view the logged data in a graph, select the “Graph” icon in the top right. You cannot email a log file in the graph format. To save a graph, take a screenshot of it.

Deleting a Saved Data Log File

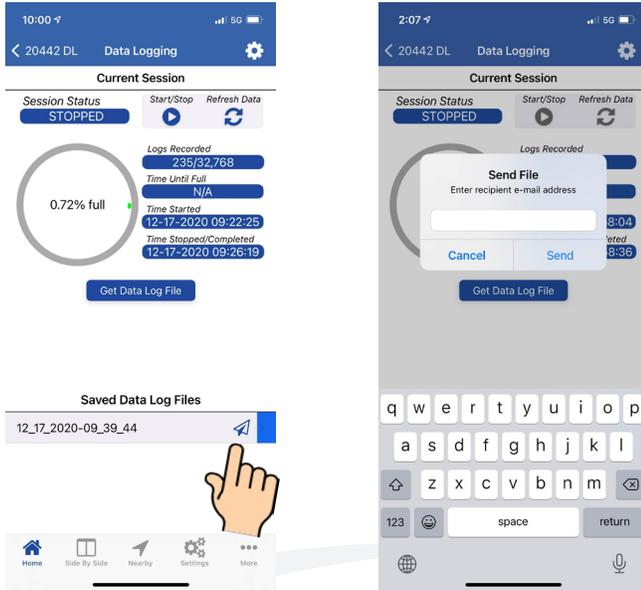


- Select the saved data log file you want to delete and swipe left.
- Select the “Delete” button to delete the file.

- Select “Yes” or “No” to delete the logged file.

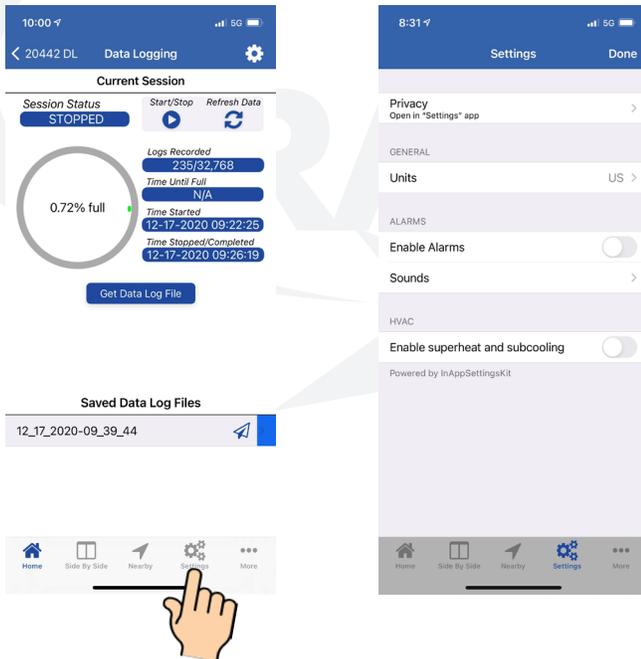


Emailing the Logged File

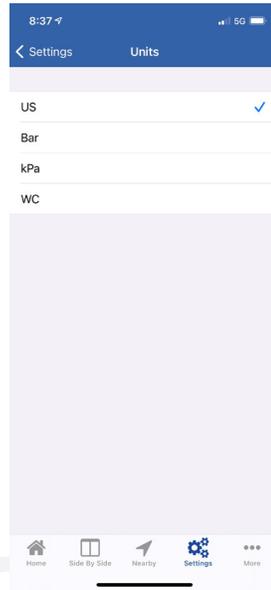
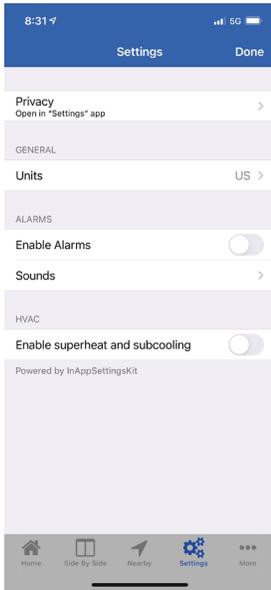


- While on the Current Session Screen, you have the option to email the logged file. Click the paper airplane symbol next to the logged file name.
- Enter email address and press Send.

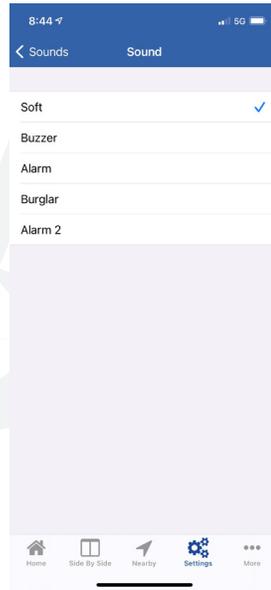
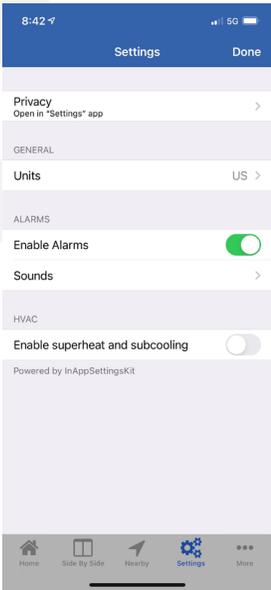
Settings



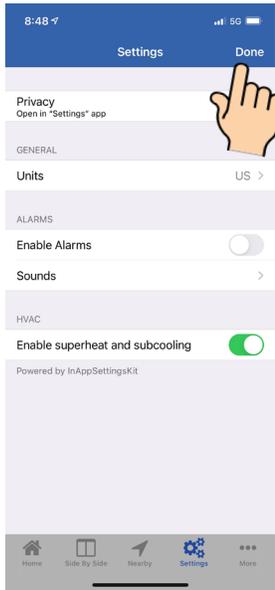
- To view settings, select the “Settings” icon (bottom right).
- **Privacy:** Select to verify if Bluetooth permission is enabled.



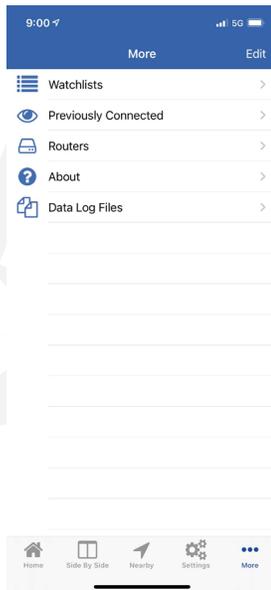
- **Units:** Displays the units of measure for pressure, which will automatically select either Celcius or Fahrenheit for temperature.
- The US (United States) setting is psi. The WC (Water Column) setting is inches of water column.



- **Enable Alarms:** Select to enable alarms that were created on the sensor settings screen. (To access the sensor settings screen, click the “Gear” icon while on the large gauge screen).
- **Sounds:** Select “Sounds” to view current sound selected. Select that sound to view additional sound options.
- Select a sound to hear an audio sample of that sound. When you find the sound you want, select the back arrows, upper left, to get back to the settings page.

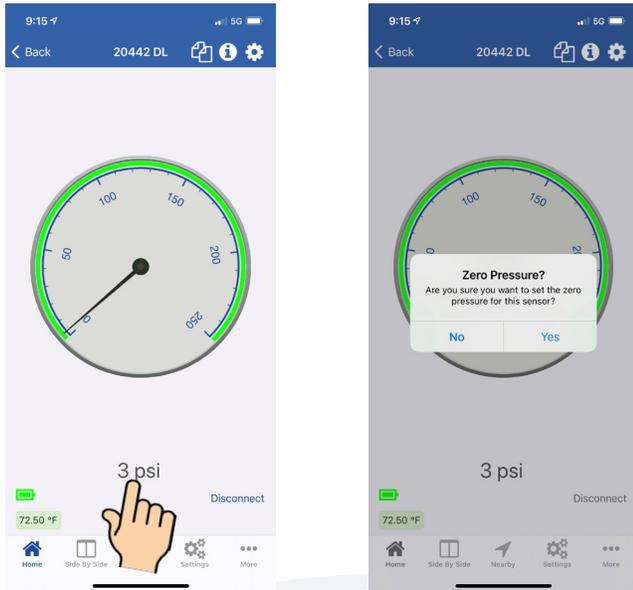


- **HVAC:** When working with HVAC, you can enable superheat and subcooling.
- Select “Done” to view the large green gauge with the superheat and subcooling calculations based on the coolant you selected on the sensor setting screen.



- Select the “More” icon (bottom right).
- **Watchlists:** This is where you can set up a watchlist for viewing multiple sensors simultaneously.
- **Previously Connected:** To view sensors that were previously connected in the app.
- **Routers:** Select to set up a new router.
- **About:** Shows app version and Transducers Direct’s contact information.
- **Data Log Files:** Select to view a list of saved log files stored in one or more sensors. Files can be viewed without being connected to the sensor.

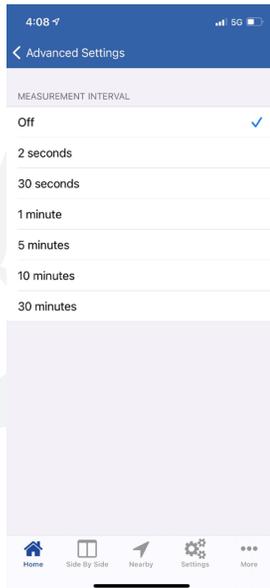
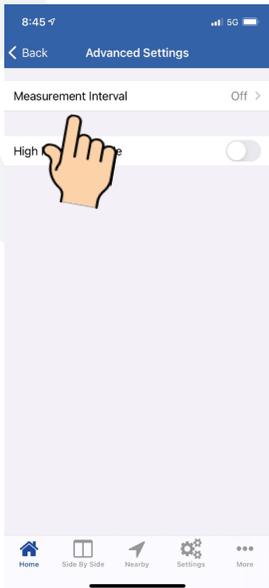
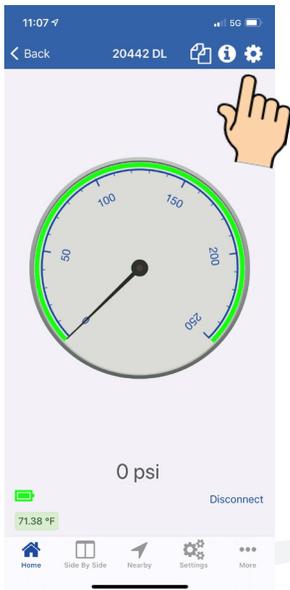
ZERO/TARE FUNCTION



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

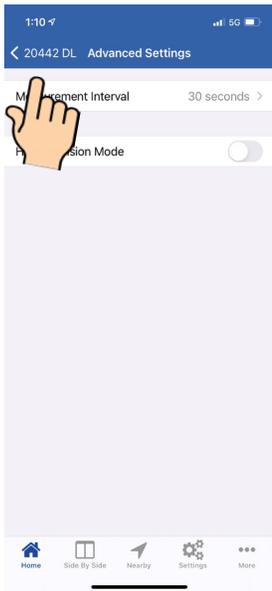
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SETTING UP A WATCHLIST

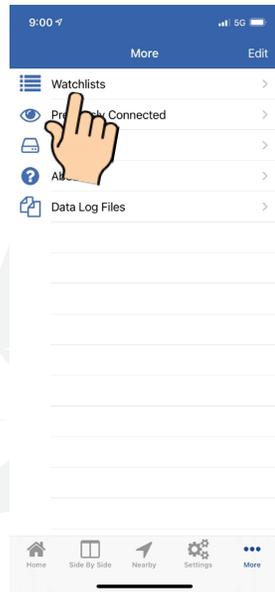


- A Watchlist is used for viewing multiple sensors (up to 6 sensors can viewed in the normal mode) simultaneously). A watchlist is used for viewing more than 6.
- Select the “Gear” icon.
- Select “Advanced Settings.”

- Select “Measurement Interval.”
- The measurement interval sets the response time of the sensors while in the Watchlist. The most commonly used measurement interval setting for Watchlist is 30 seconds. Selecting a 2 second measurement interval is an option, but it puts a higher current draw on the battery. Selecting a measurement interval greater than 30 seconds, will be less of a current draw on the battery for each incremental change, but may not always be practical. Any measurement interval setting other than “Off” will draw more current. Select “30 seconds.” App will take you back to the Advanced Settings Screen.

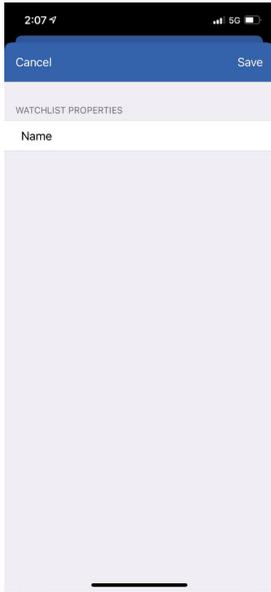


- Select the “Back” button in upper left-hand corner.
- Select “Save” and disconnect sensor.
- Repeat this with all sensors you want to add to the Watchlist.

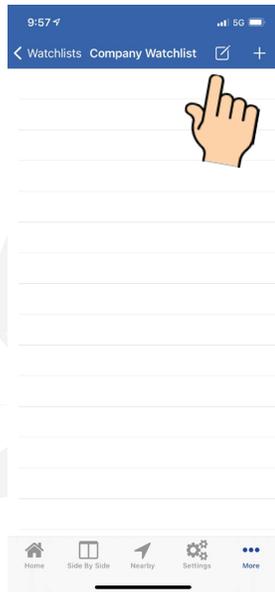
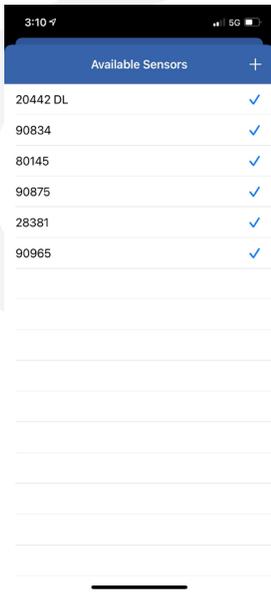


- Select “More” on bottom right of the app.
- Select “Watchlists.”
- Select the “+” sign in the upper right-hand corner of the next screen.



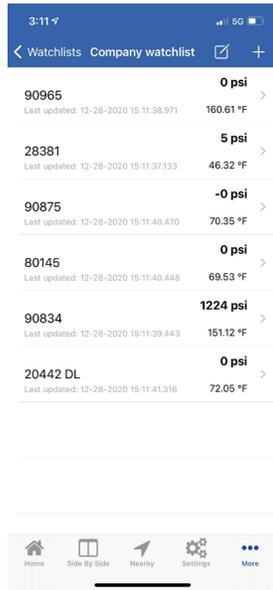
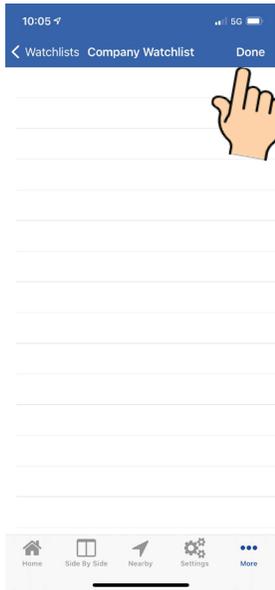


- Select “Name” and create a name for the Watchlist.
- Select “Save.”
- Select the name you created.
- To view all sensors in the Watchlist, click the “+” sign in upper right-hand corner.
- A list of available sensors displays.



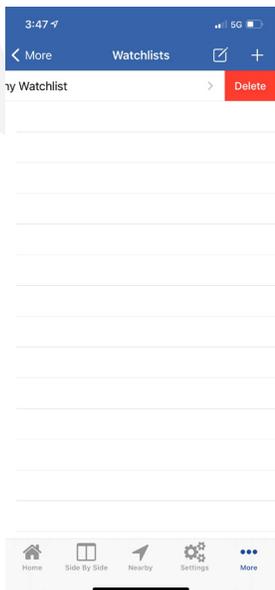
- Select each listed sensor (a blue check mark will appear next to each selected sensor).
- Select “+” again.
- Select the “Refresh” icon in the upper right of screen.





- On the next screen, select “Done.”
- Each sensor now appears displaying pressure and temperature readings.

Deleting a Watchlist



- To delete a Watchlist, select the Watchlist name and swipe left.
- Select the red “Delete” marker to remove the list.
- If you are no longer using the sensors in the Watchlist, set the 30 second measurement interval to Off on each sensor. Click the back button and select “Save.” This will reduce the current draw on the battery.