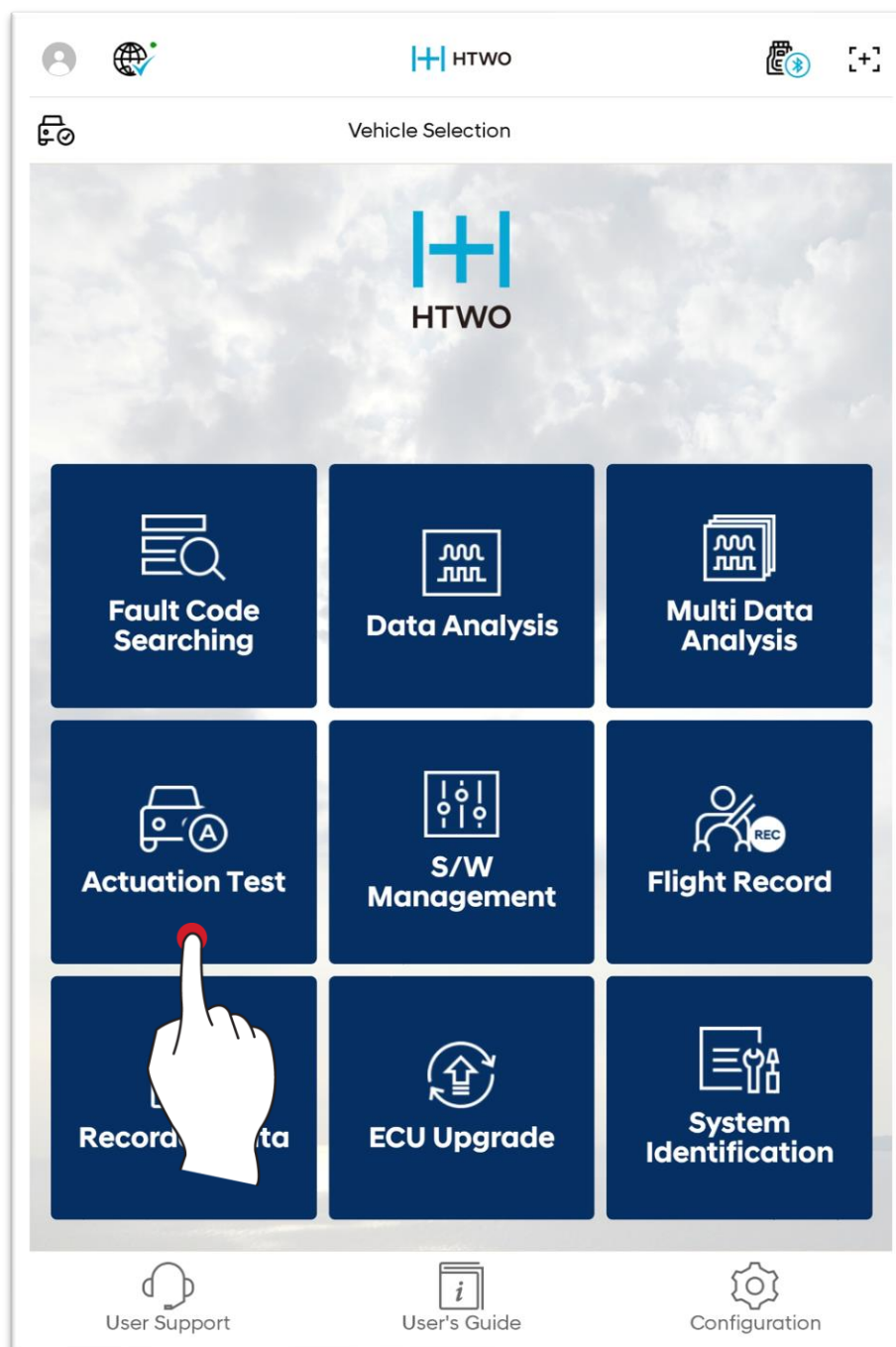


## Actuation Test

This is a function of performing forced self-driving and stopping various actuators installed on vehicles through a control module, which can inspect the normal driving status of parts.



## Actuation Test

It displays Actuation Test Item supported on the selected vehicle and operates the selected actuator manually.

The screenshot displays the 'Actuation Test' interface for a vehicle identified as 'HTWO/2022/3rd Generation FC(95kW)'. The selected test item is 'FCU1\_REAR (9)'. A red box highlights the sensor data table, the playback controls, and the 'Start' and 'Save' buttons. Below this, the 'Actuation Test - Fuel Cell System 1(V085X)' section shows a table of test items. A hand icon with a red circle and the number '1' points to the first row of the test items table. At the bottom, a 'Stop' button is shown with a hand icon and a red circle and the number '2' pointing to it.

Sensor Name	Value	Unit	Link Up
<input type="checkbox"/> Air Temperature Sensor Value(Stack Outlet)	-34	'C	
<input type="checkbox"/> Air Temperature Sensor Voltage(Stack Outlet)	0.7	V	
<input type="checkbox"/> Air Flow Sensor Value	24	-	
<input type="checkbox"/> Air Flow Sensor Temperature Value	-41	'C	
<input type="checkbox"/> Air Flow Sensor Humidity Value	10	%	
<input type="checkbox"/> Air Pressure Sensor Value	77	-	

00:00:00/00:00:52

Start Save

**Actuation Test - Fuel Cell System 1(V085X)**

Test Items (21)	Condition	Duration	Result
Air Pressure Control Valve Control	IG. ON	Until Stop Button	Operation Command Sent
Fuel Block Valve Control	IG. ON	Until Stop Button	
Fuel Supply Valve Control	IG. ON	Until Stop Button	
Fuel Drain Valve Control	IG. ON	Until Stop Button	
Fuel Drain Valve Heater Control	IG. ON	Until Stop Button	

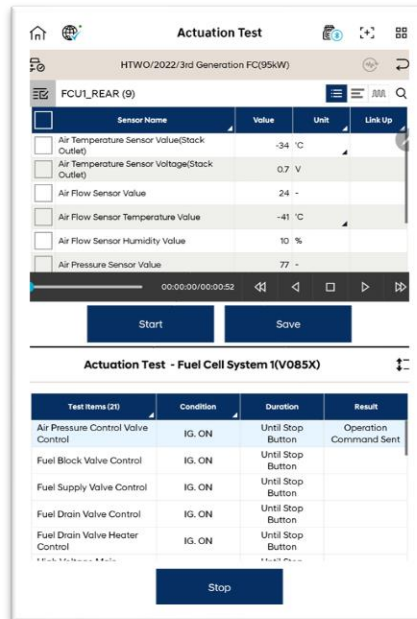
Stop

## Data Analysis Mode

It displays the input/output value of sensor data when the user performs Actuation Test

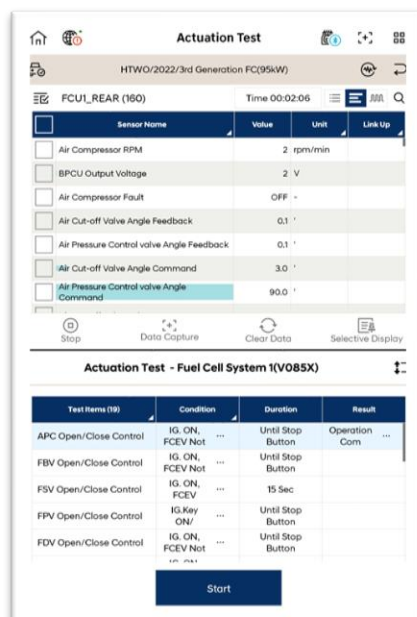
### Text Mode

This indicates the sensor data as text format.



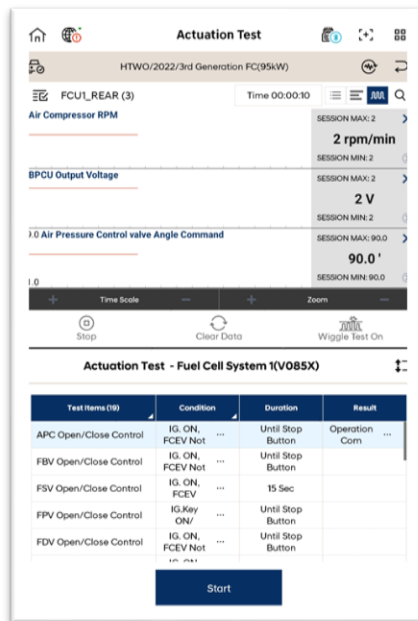
### Bar Graph Mode

This indicates the sensor data as a bar graph format.



## Graph Mode

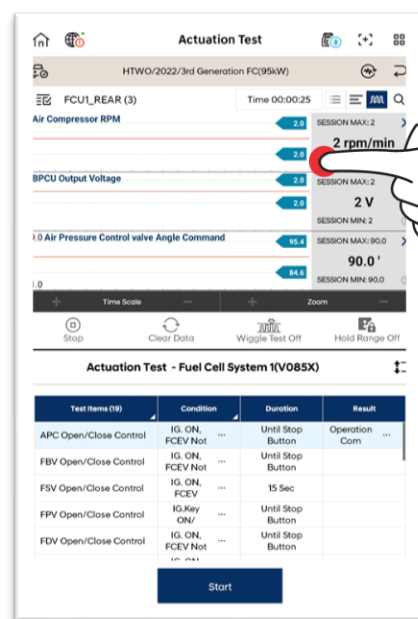
This indicates a selected sensor data as a graph format.




## Graph Mode – Function Button

### Wiggle Test On / Off

When Wiggle Test function is switched ON, the user can configure a desired data maximum/minimum value, and receive a notification if the sensor value exceeds or falls below the standard value.

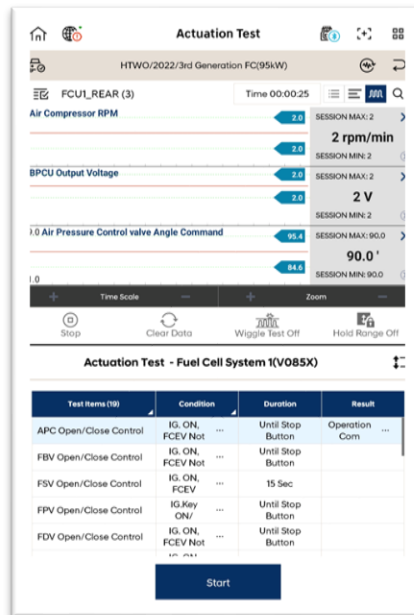


 If you mute or volume is low, you may not hear an audible alarm.


Configure the value by dragging the cursor.

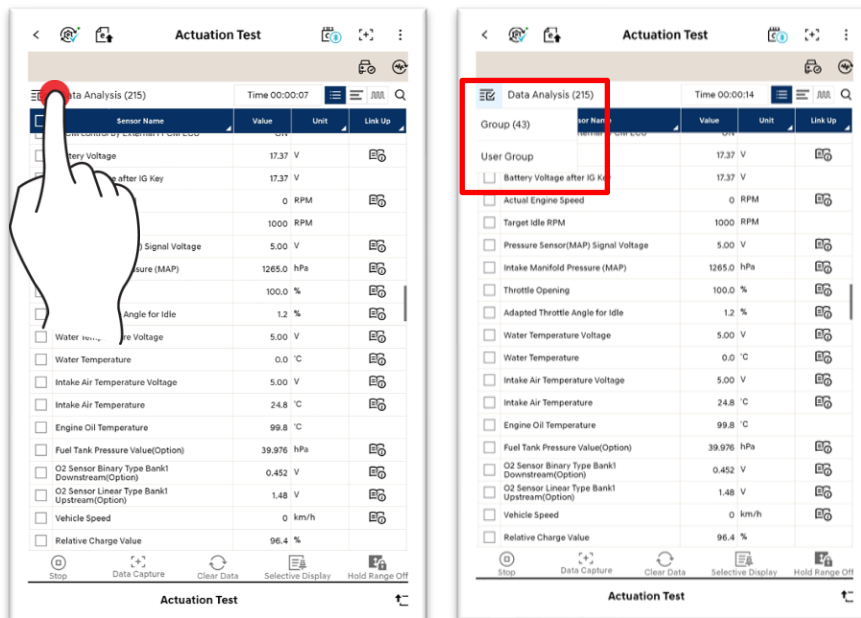
## Wiggle Test On – Hole Range On

If Hold Range is switched ON, it only shows the sensor values that exceed or fall below the standard value.



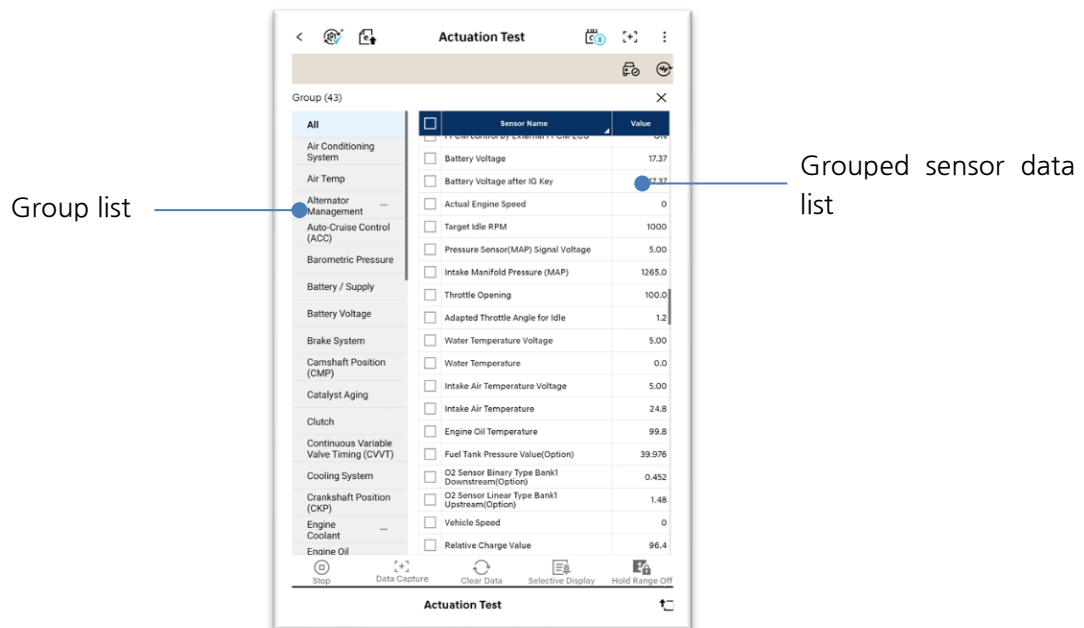
## Group/User Group

Through  button on the top-left corner, the user can use Group/User Group function.



## Group

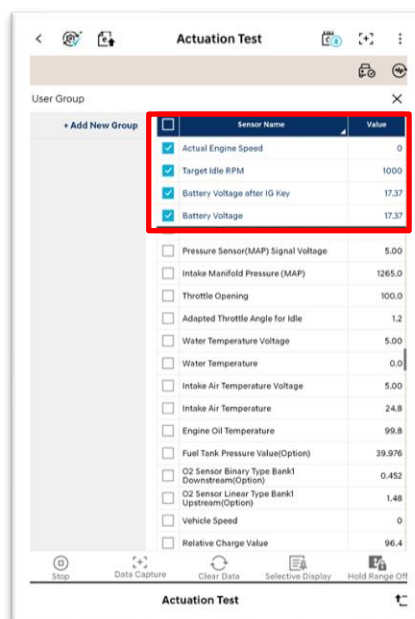
It forms a group of sensor data items to express only relevant data.



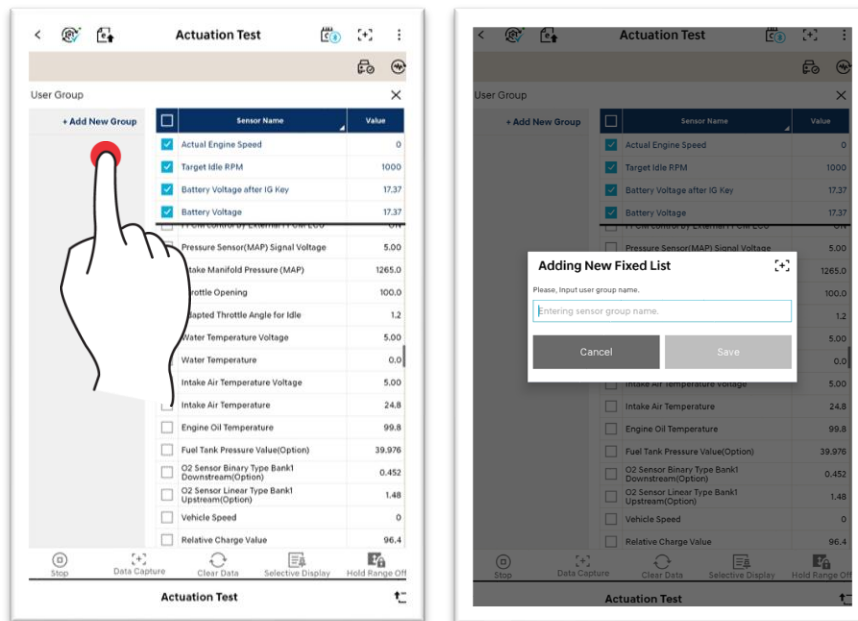
## User Group

The user can form or edit a group of desired sensor data items.

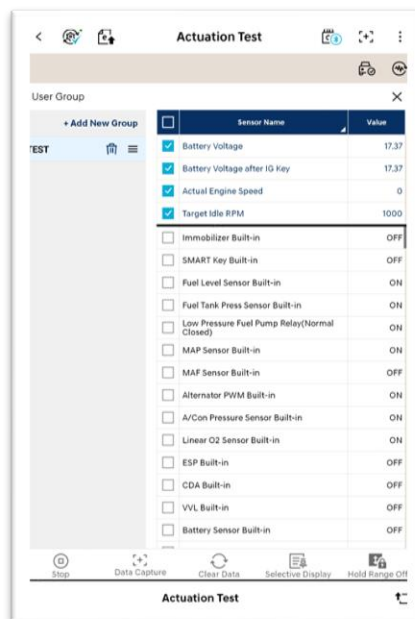
1. In User Group screen, select the sensor data items to be grouped.



2. Once selection of items is made, form a group through ‘Add a New Group’.



3. The group formation is completed.



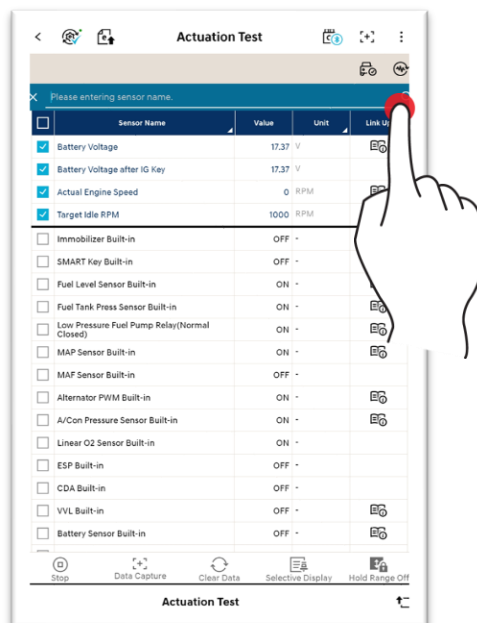
You can delete the formed group.








You can change the group order.

## Search

You can search the sensor data by entering a search word and touching .




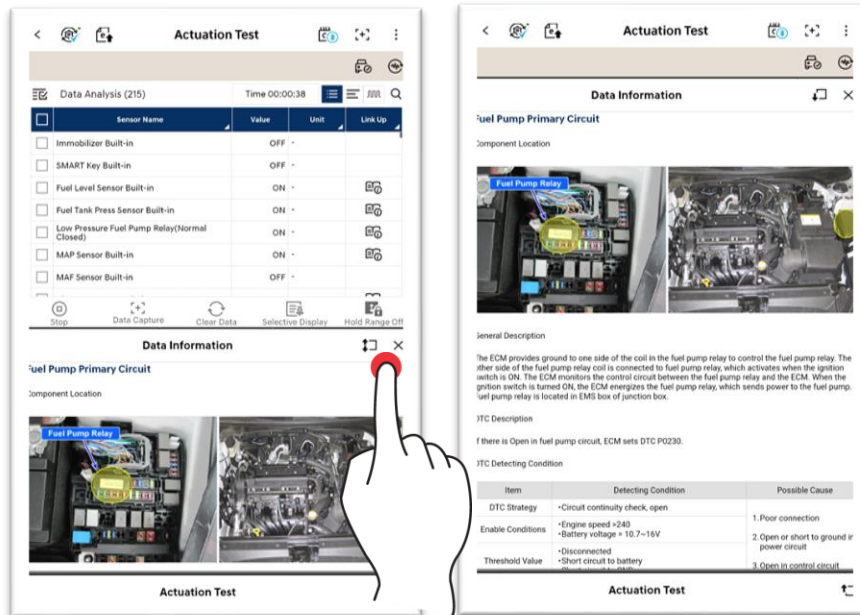
## Bottom Function Buttons

 Stop	This function collects sensor data values over a certain period of time, and stops the sensor data values. 'Start' and 'Stop' buttons operate in turn.
 Data Capture	This captures the sensor data screen.
 Clear Data	This initializes the collected sensor data values, and recollects them.
 Selective Display	This only shows the sensor values of the sensor data items, which were selected based on needs. The entire sensor data values are shown when Fixed Output function is turned off.
 Recorded Data	This function analyzes the saved sensor data file. This is linked to Saved Data Analysis function.



## Screen Control

1. You can spread or fold the screen by dragging  button upwards or downwards.



2. You can maximize/minimize the items in Graph Mode.

