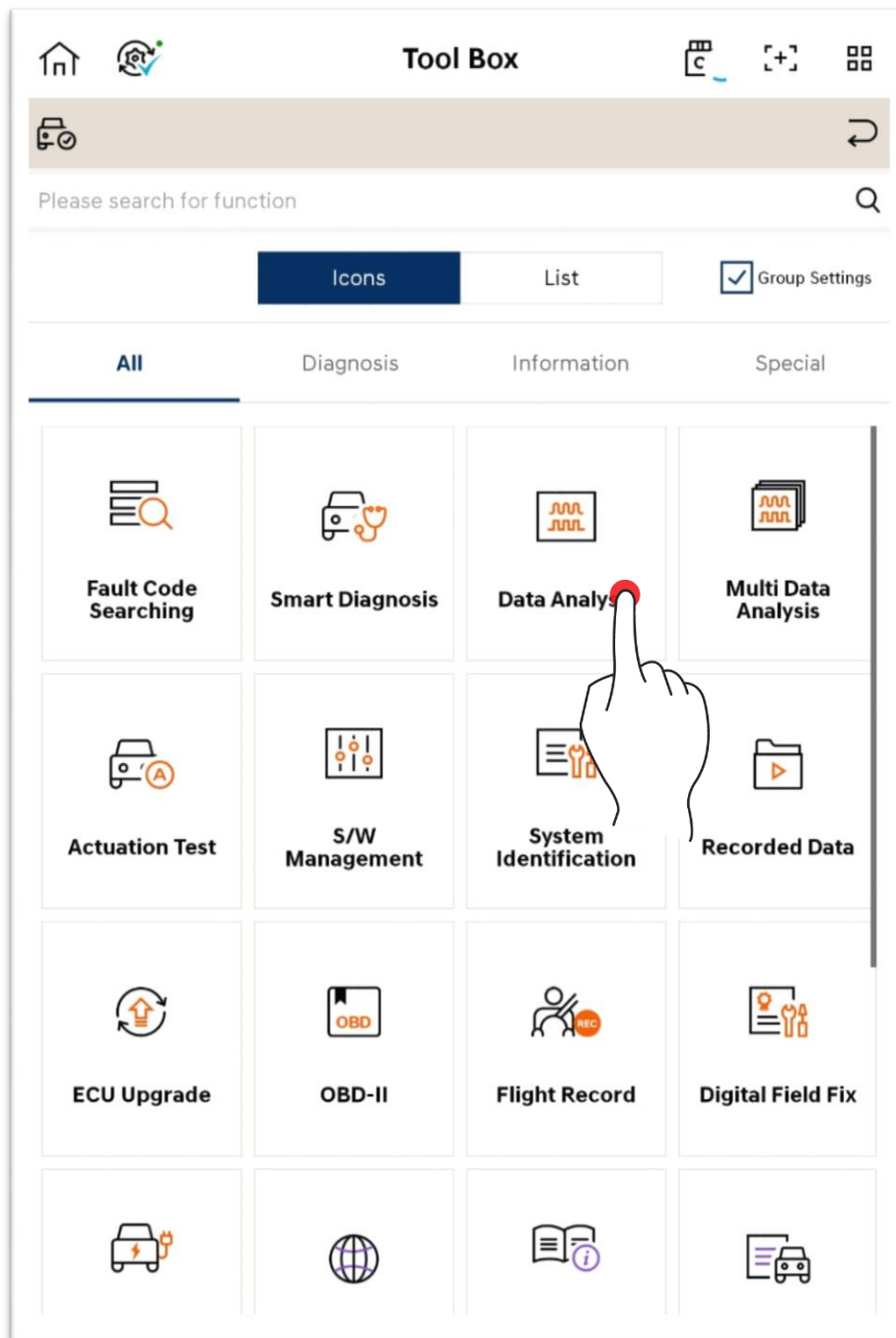


Tool Box – Data Analysis

This function allows various types of control modules mounted on the vehicle to confirm the parameter values, which control the sensor’s signal input and movement of actuators, through vehicle communication.

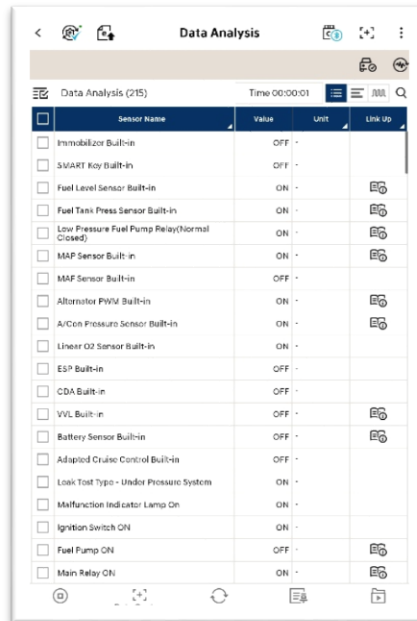


Mode









This is a description of sensor data indicating mode.

Text Mode

This indicates the sensor data in text format.

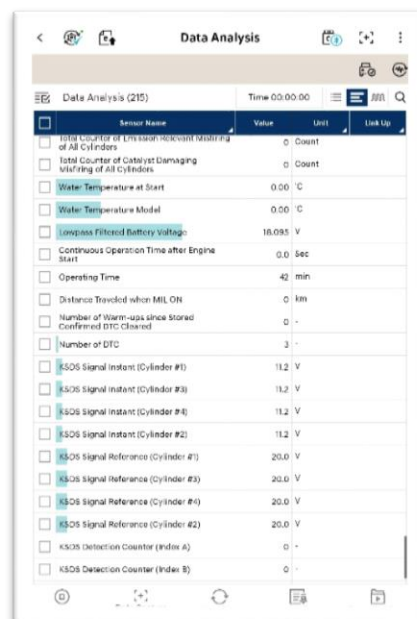


The screenshot shows the 'Data Analysis' interface in text mode. The title bar indicates 'Data Analysis (215)' and 'Time 00:00:01'. Below the title bar is a table with the following columns: Sensor Name, Value, Unit, and Link Up. The table lists various sensors and their current states.

Sensor Name	Value	Unit	Link Up
Immobilizer Built-in	OFF	-	
SMART Key Built-in	OFF	-	
Fuel Level Sensor Built-in	ON	-	
Fuel Tank Press Sensor Built-in	ON	-	
Low Pressure Fuel Pump Relay(Normal Closed)	ON	-	
MAP Sensor Built-in	ON	-	
MAP Sensor Built-in	OFF	-	
Alternator PWM Built-in	ON	-	
A/C on Pressure Sensor Built-in	ON	-	
Linear O2 Sensor Built-in	ON	-	
ESP Built-in	OFF	-	
CDA Built-in	OFF	-	
VVL Built-in	OFF	-	
Battery Sensor Built-in	OFF	-	
Adapted Cruise Control Built-in	OFF	-	
Loak Test Typo - Under Pressure System	ON	-	
Malfunction Indicator Lamp On	ON	-	
Ignition Switch ON	ON	-	
Fuel Pump ON	OFF	-	
Main Relay ON	ON	-	

Bar Graph Mode

This indicates the sensor data in bar graph format.

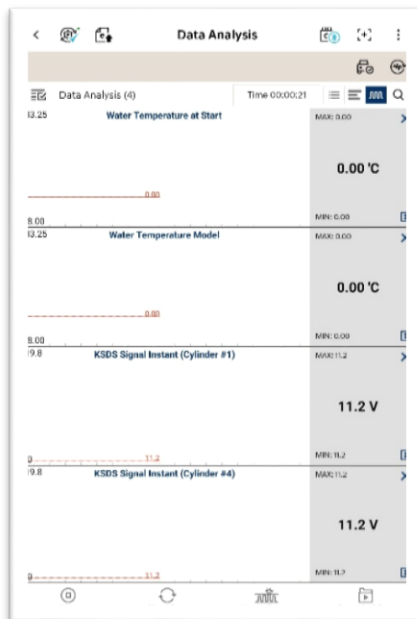


The screenshot shows the 'Data Analysis' interface in bar graph mode. The title bar indicates 'Data Analysis (215)' and 'Time 00:00:00'. Below the title bar is a table with the following columns: Sensor Name, Value, Unit, and Link Up. The table lists various sensors and their current values.

Sensor Name	Value	Unit	Link Up
Total Counter of This season Recent Misfiring of All Cylinders	0	Count	
Total Counter of Catalyst Damaging Misfiring of All Cylinders	0	Count	
Water Temperature at Start	0.00	°C	
Water Temperature Model	0.00	°C	
Lowpass Filtered Battery Voltage	16.095	V	
Continuous Operation Time after Engine Start	0.0	Sec	
Operating Time	40	min	
Distance Traveled when MIL ON	0	km	
Number of Warm-ups since stored Confirmed DTC Cleared	0	-	
Number of DTC	3	-	
KSDS Signal Instant (Cylinder #1)	11.2	V	
KSDS Signal Instant (Cylinder #3)	11.2	V	
KSDS Signal Instant (Cylinder #6)	11.2	V	
KSDS Signal Instant (Cylinder #2)	11.2	V	
KSDS Signal Reference (Cylinder #1)	20.0	V	
KSDS Signal Reference (Cylinder #3)	20.0	V	
KSDS Signal Reference (Cylinder #4)	20.0	V	
KSDS Signal Reference (Cylinder #2)	20.0	V	
KSDS Detection Counter (Index A)	0	-	
KSDS Detection Counter (Index B)	0	-	

Graph Mode

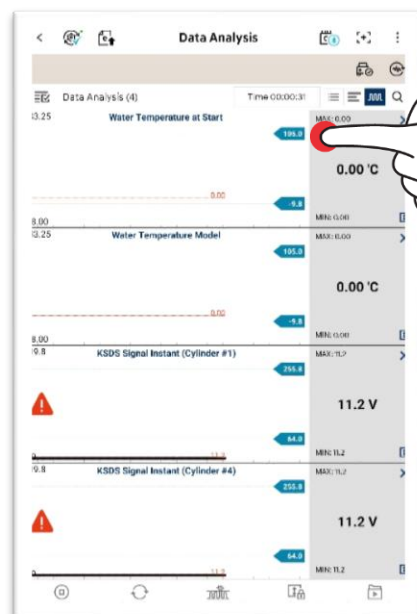
This indicates selected sensor data in graph format.




Graph Mode – Function Buttons

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.

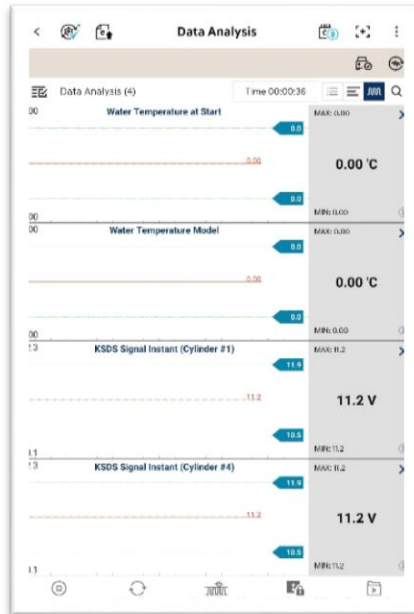


Configure the value by dragging the cursor.


 If it is set as muted or low volume, the alarm sound may not be heard.

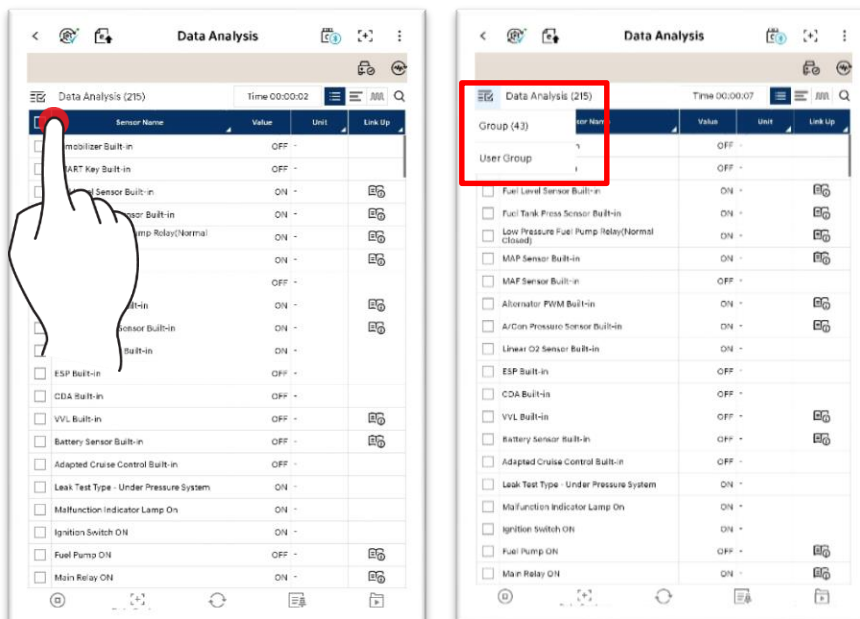
Wiggle Test On – Hole Range On

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



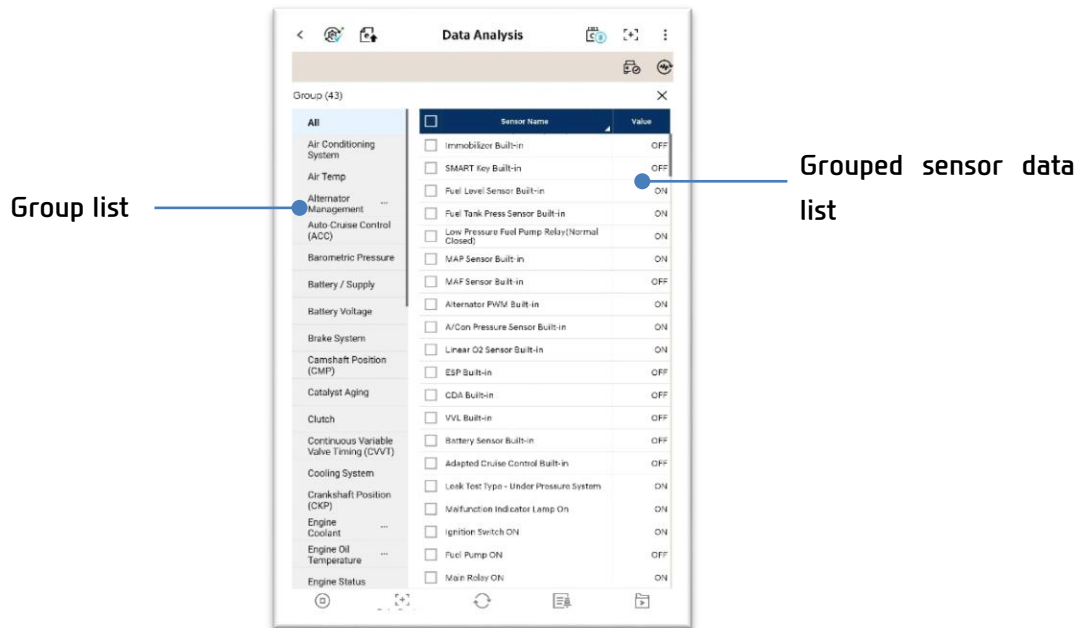
Group/User Group

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



Group

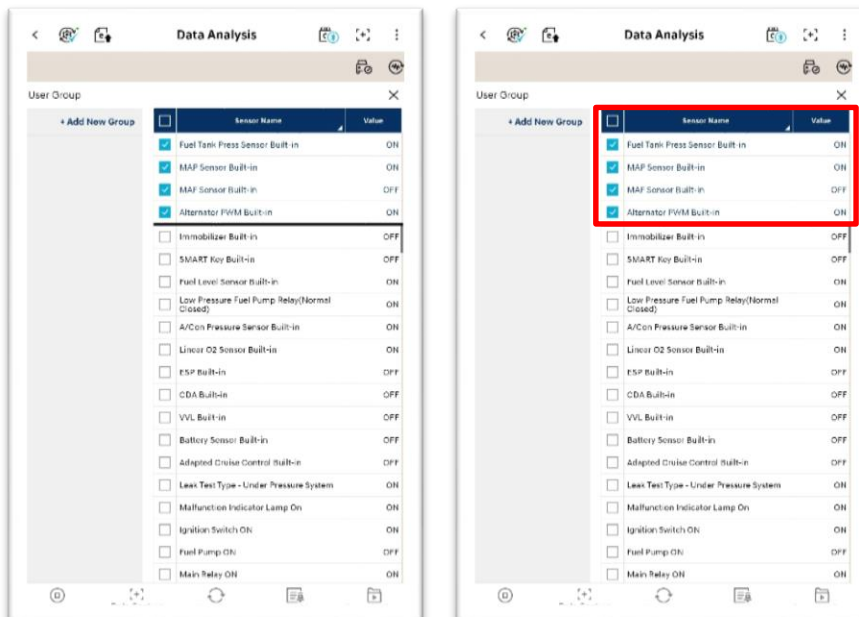
It forms a group of sensor data items to express only relevant data.



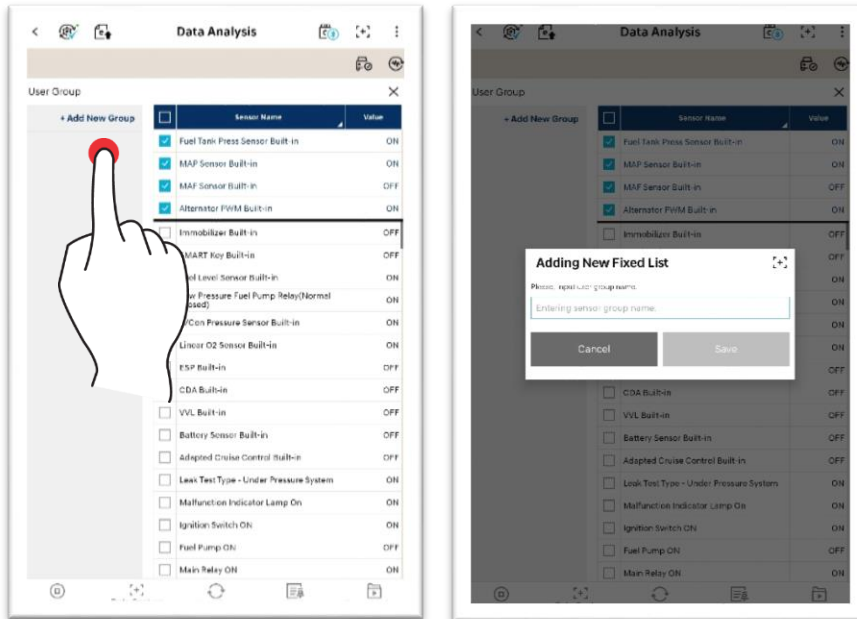
User Group

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

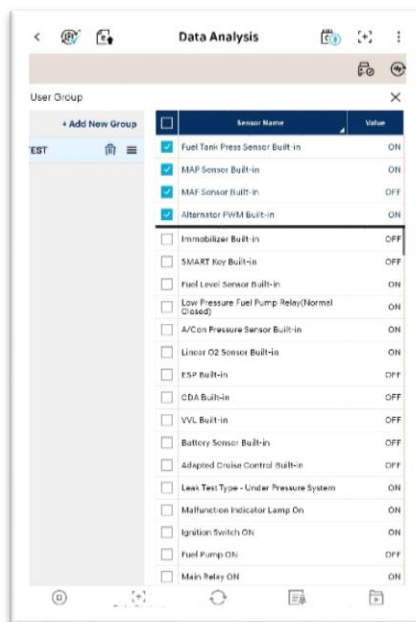
1. In User Group screen, select the sensor data items to be grouped.






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



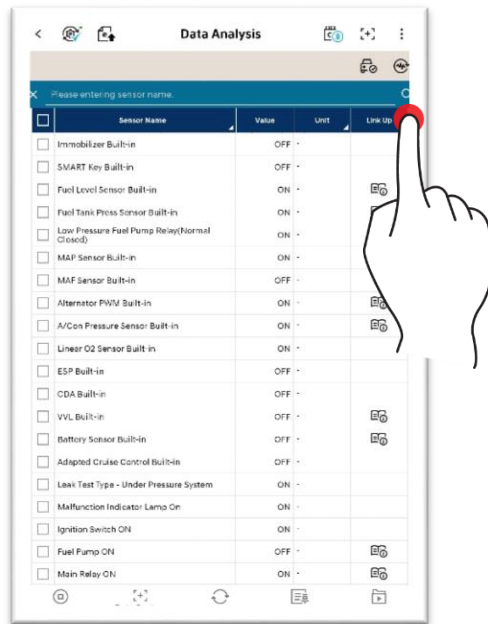
3. The group formation is completed.




		You can delete the formed group.
		You can change the group order.

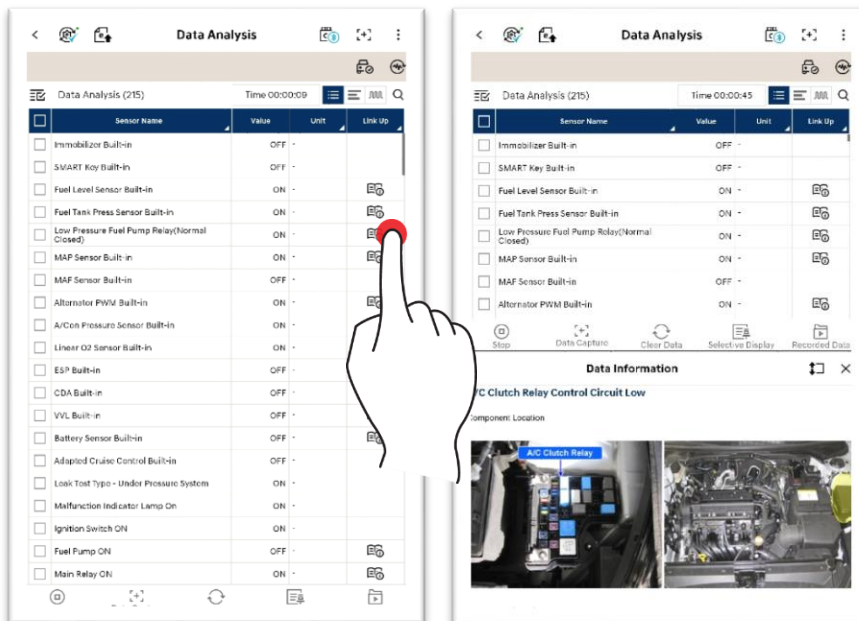
Search

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



Link-up

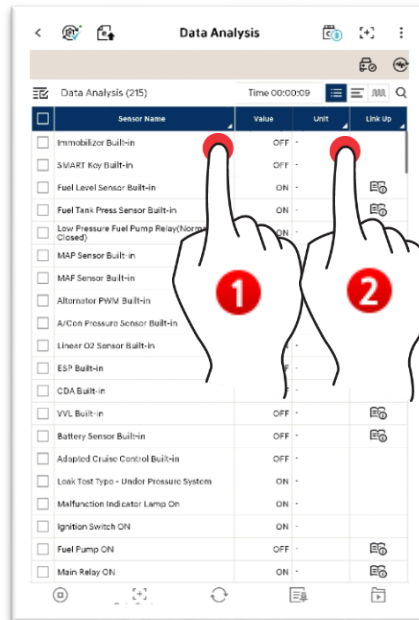
You can check the sensor information of the selected items by touching .








Arrangement and Unit Change

You can arrange the items by touching the sensor name, and change the unit by touching unit.

Touch  located at the bottom right corner of each title.

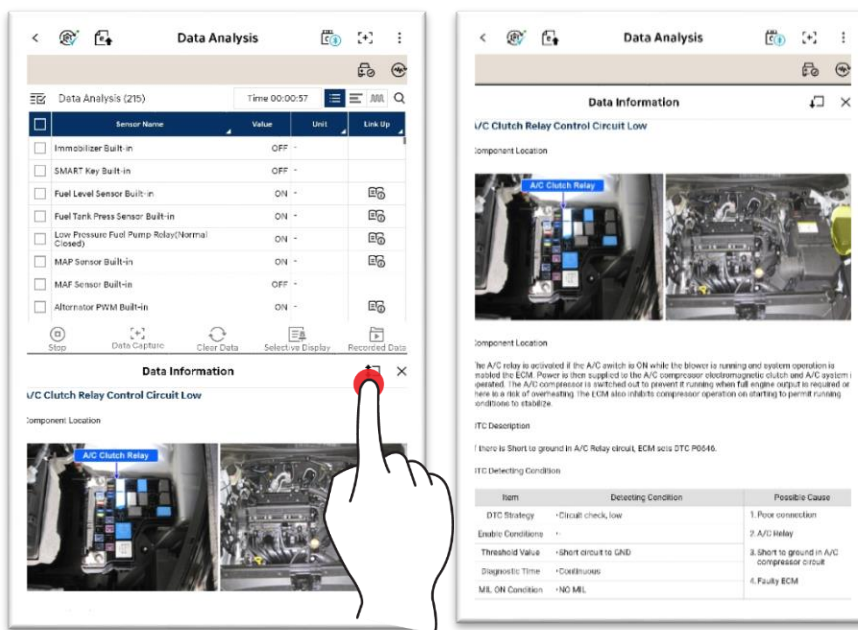


Bottom Function Buttons

 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.

