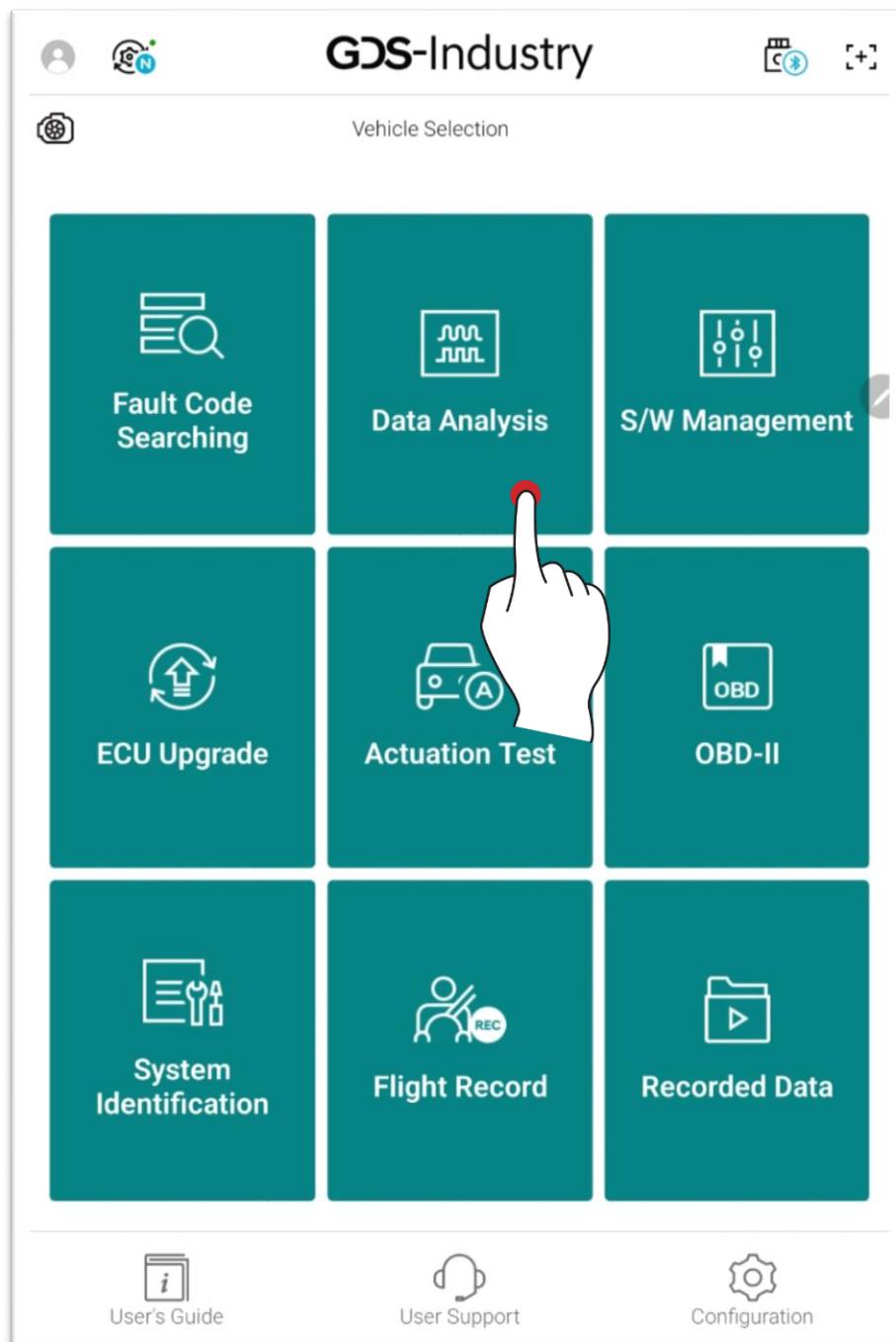


Data Analysis

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.

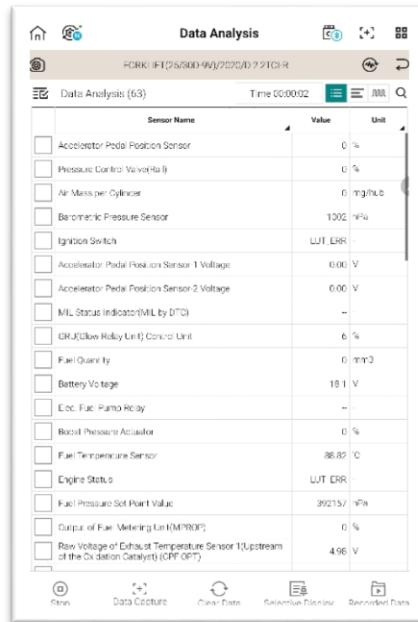


Mode

This is a description of sensor data indicating mode.

Text Mode

This indicates the sensor data in text format.

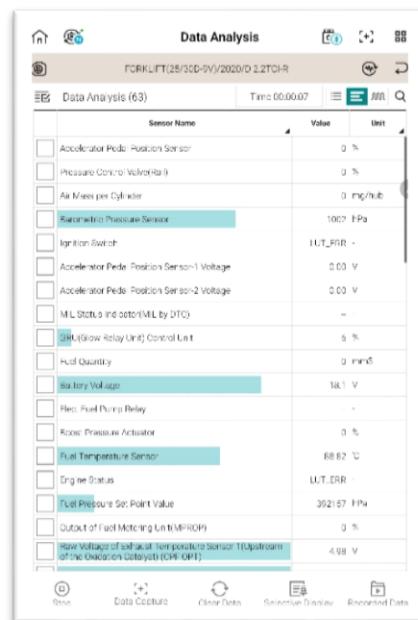


The screenshot shows a software interface titled "Data Analysis" with the identifier "FORKLIFT/25/30D-IV/2020/D.2.2TCI-R". The main window displays a table of sensor data. The columns are "Sensor Name", "Value", and "Unit". The table lists various sensors and their current values and units. Some rows have a small checkbox icon to the left of the sensor name.

Sensor Name	Value	Unit
Accelerator Pedal Position Sensor	0 %	
Pressure Control Valve(Valve)	0 %	
Air Mass per Cylinder	0 mg/hub	
Barometric Pressure Sensor	1002 hPa	
Ignition Switch	UUT_ERR	
Accelerator Pedal Position Sensor 1 Voltage	0.00 V	
Accelerator Pedal Position Sensor 2 Voltage	0.00 V	
ML Status Indicator(ML by DTC)	-	
GRU(Glow Relay Unit) Control Unit	6 %	
Fuel Quantity	0 mm³	
Battery Voltage	18.1 V	
Elec. Fuel Pump Relay	-	
Rooftop Pressure Actuator	0 %	
Fuel Temperature Sensor	88.82 °C	
Engine Status	UUT_ERR	
Fuel Pressure Set Point Value	392157 hPa	
Output of Fuel Metering Unit(MPROP)	0 %	
New Voltage of Exhaust Temperature Sensor 1(Upstream of the Oxidation Catalyst)(GPH_OPT)	4.98 V	

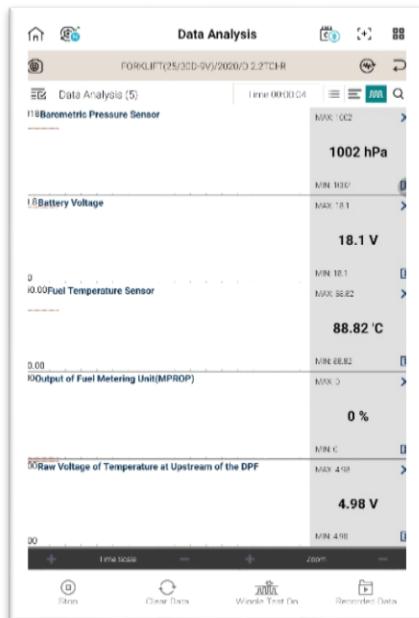
Bar Graph Mode

This indicates the sensor data in bar graph format.



Graph Mode

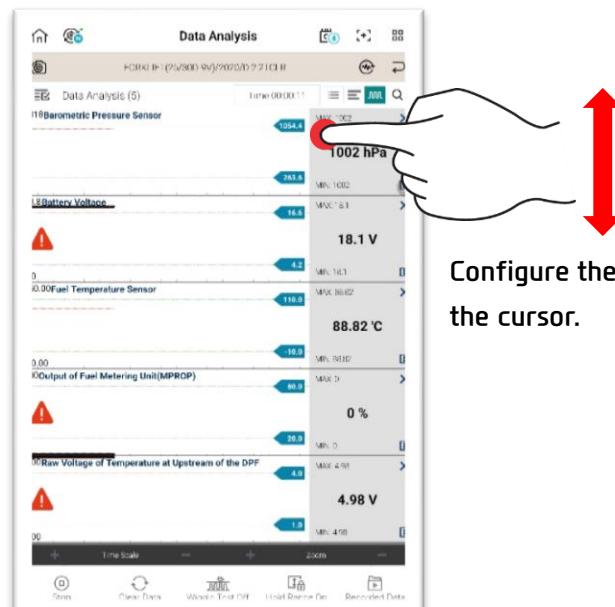
This indicates selected sensor data in graph format.



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.



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

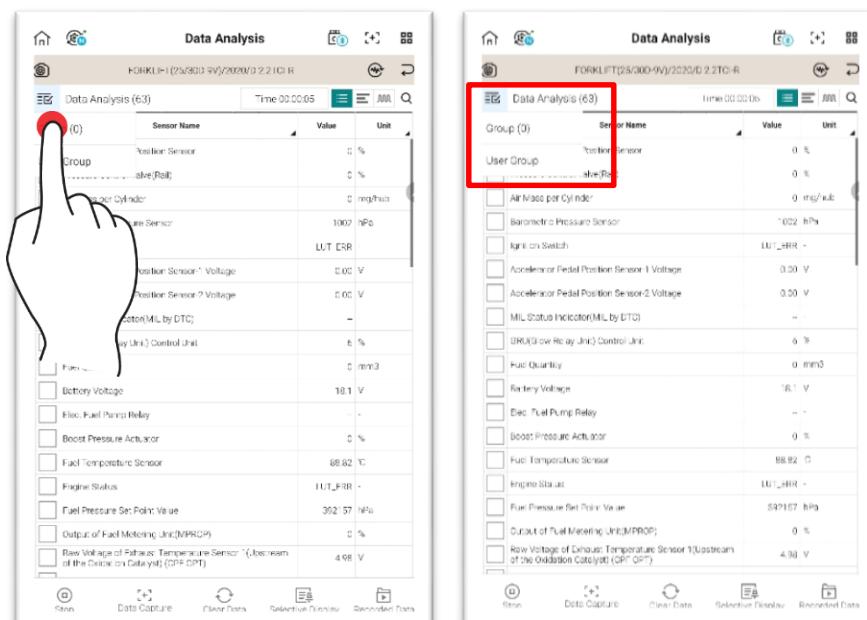
Wiggle Test On – Hole Range On

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.

The screenshot shows the 'Data Analysis' software interface. On the left, there is a 'Group list' sidebar with a tree view of sensor categories like 'All', 'Air Conditioning System', 'Air Temp', etc. A blue circle highlights the 'Group list' label. On the right, a table titled 'Group (43)' displays a list of sensor names and their values. A blue circle highlights the table header. A blue arrow points from the 'Grouped sensor data list' label to the table body. The table contains numerous entries, such as 'Immobilizer Built-in' (OFF), 'Fuel Tank Press Sensor Built-in' (ON), 'Fuel Pump ON' (OFF), and 'Main Relay ON' (ON).

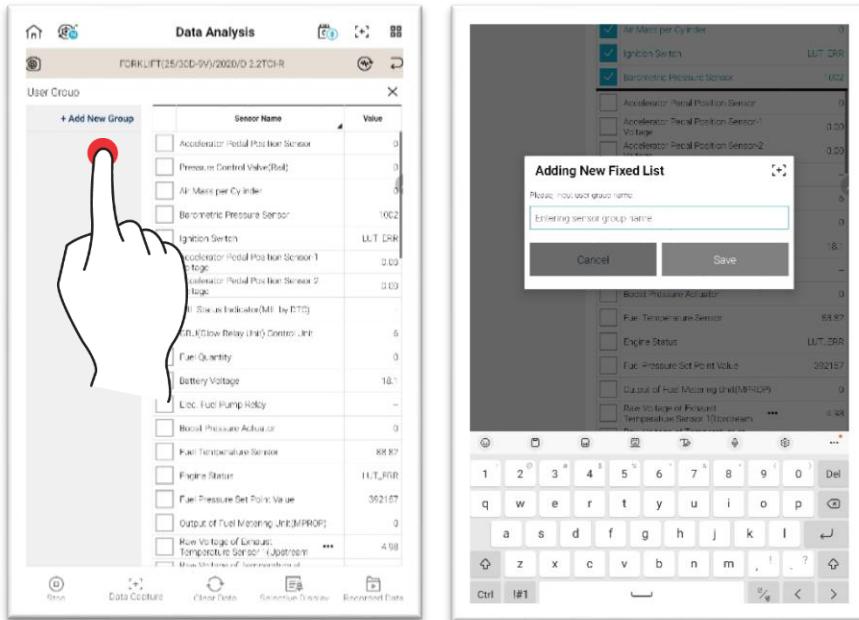
User Group

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

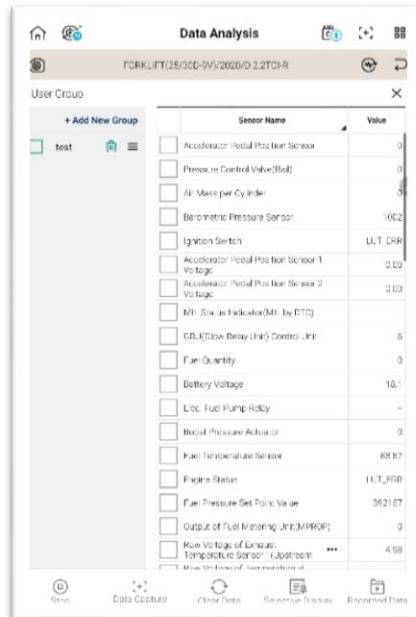
1. In User Group screen, select the sensor data items to be grouped.

The screenshot shows the 'Data Analysis' software interface with the 'User Group' screen open. On the left, a list of sensor items is shown. On the right, a table lists sensor names and values. A red box highlights the table area where four specific sensors are selected: 'Pressure Control Valve(Hall)', 'Air Mass per Cylinder', 'Ignition Switch', and 'Barometric Pressure Sensor'. These selected items are highlighted with a red border. The rest of the sensor list remains unselected.

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



3. The group formation is completed.



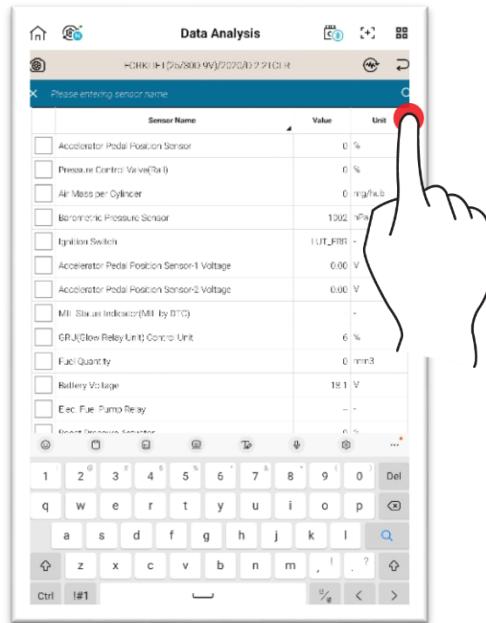
You can delete the formed group.



You can change the group order.

Search

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



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.