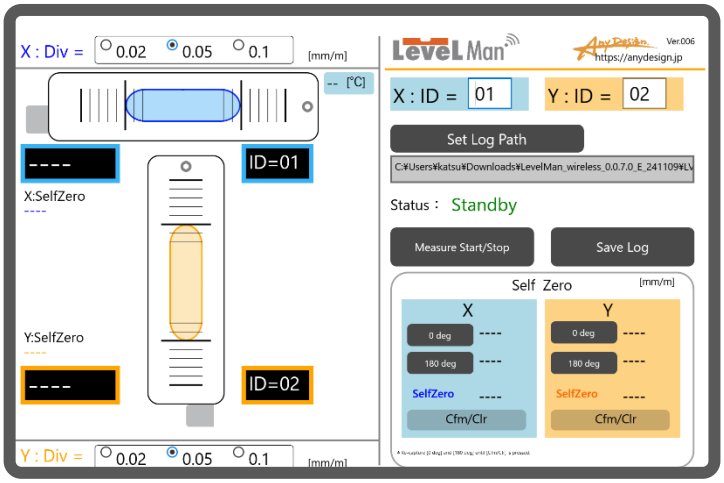
Wireless Digital Precision Level

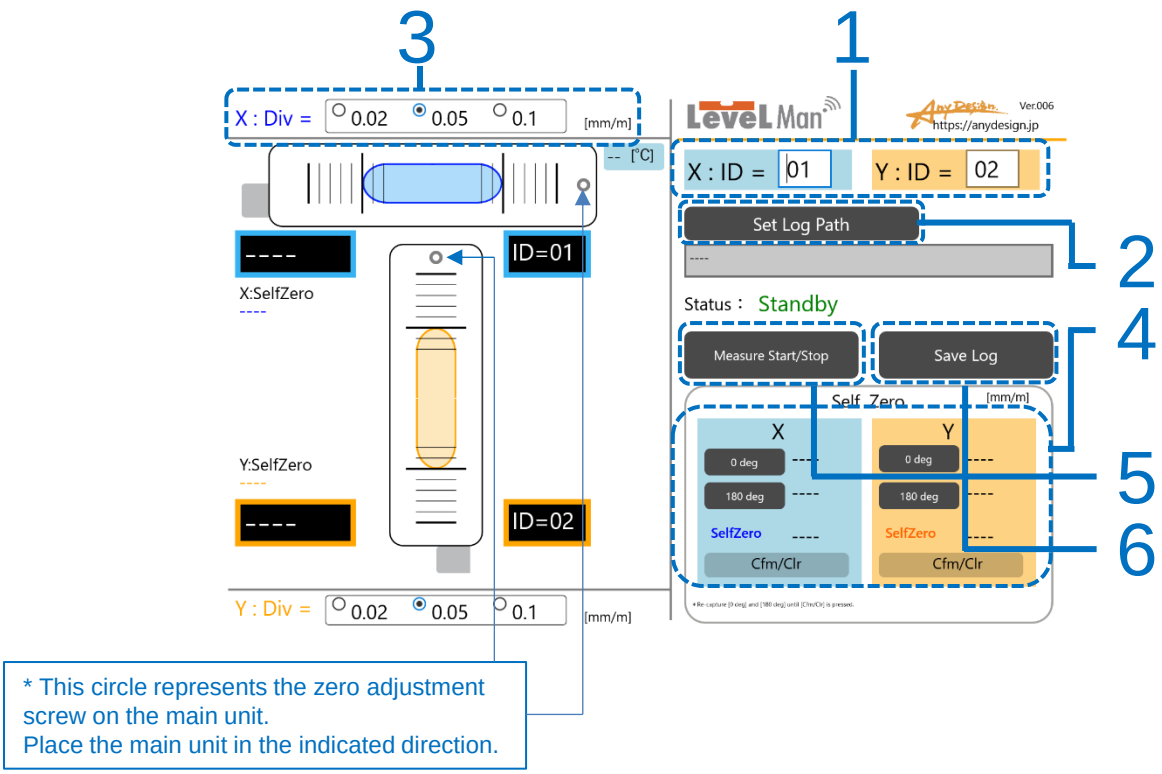
Level Man ADL-T5 Series Included Wireless Application User Manual



Thank you very much for using our wireless application included with the ADL-T5 series..

- Please read this manual carefully to ensure correct and safe use.
- We hope this application provides accurate measurements and long-lasting performance.
- After reading, please keep this manual in a safe place for future reference.

Quick Start Guide



1. Enter the ID number of LevelMan.

The ID number is the upper two digits of the last five digits of the serial number on the label attached to the main unit (highlighted in red).

Example of Levelman ADL-T5 series ----S/N:4532 01 100

2. Specify the folder path where the log file will be saved.

* Before you can save measurement logs, extract the provided files and place "LVLFree_Log.csv" in the folder where the logs will be saved.

3. Set the scale sensitivity.

4. Perform Self Zeroing if necessary.

This is not required every time. If measurement values differ when rotated by 180°, perform Self Zeroing.

5. Start/Stop Measurement

Ensure step 4 is checked before measuring the Inclination.

6. Save the Log

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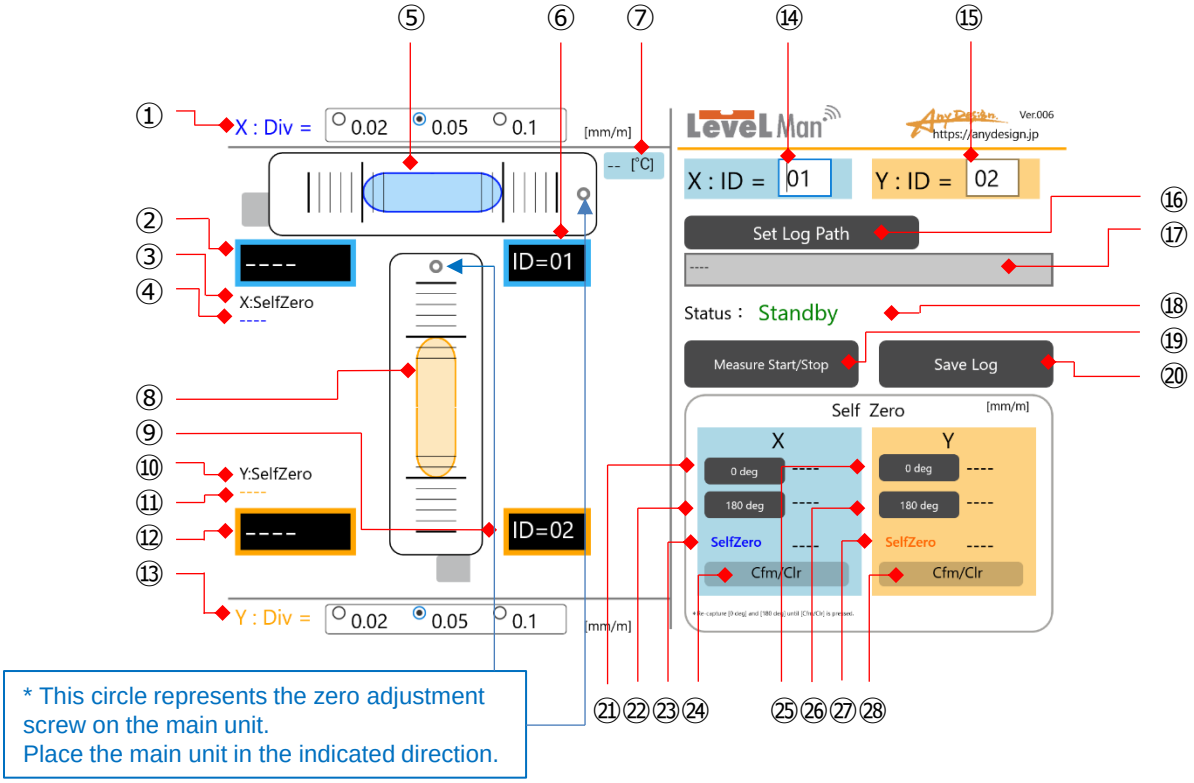
1. Screen Layout & Elements (1): Normal Screen



The LevelMan placed on the X-axis is referred to as Unit X.
The LevelMan placed on the Y-axis is referred to as Unit Y.

① Set the scale sensitivity of the level for Unit X
② Displays the digitized (Measurement) value based on the bubble position of Unit X
③ Displays the Self Zero Value for Unit X
④ Displays the Self Zero Correction Value for Unit X
⑤ Bubble Display for Unit X
⑥ Displays the ID number of Unit X
⑦ Displays the internal temperature of Unit X
⑧ Bubble Display for Unit Y
⑨ Displays the ID number of Unit Y
⑩ Displays the Self Zero Value for Unit Y
⑪ Displays the Self Zero Correction Value for Unit Y
⑫ Displays the digitized (Measurement) value based on the bubble position of Unit Y
⑬ Set the scale sensitivity of the level for Unit Y
*Internal temperature is not displayed for Unit Y.

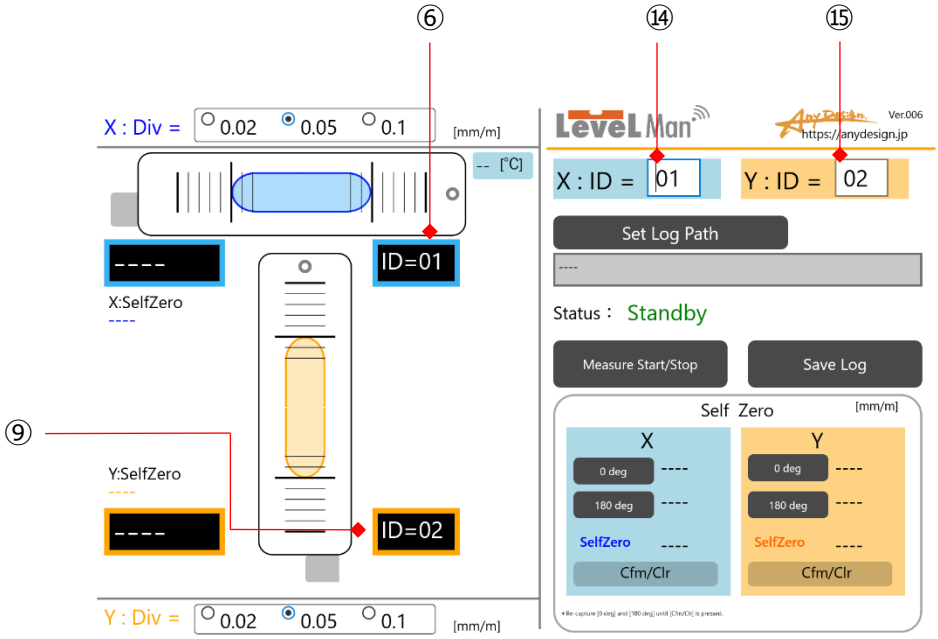
⑭ Enter the LevelMan ID for Unit X.
⑮ Enter the LevelMan ID for Unit Y.
*Refer to Page 5 for ID input.
⑯ Button to specify the log file storage location.
⑰ Displays the full path of the selected log file.
⑱ Show the current status: “Standby” or “Measuring…”.

⑲ Start/Stop Measurement button (Pressing toggles between start and complete).
⑳ Log Save button (Disabled during measurement, grayed out).

㉑ Self-Zero Capture button for Unit X.
Displays the captured value in the right column.
㉒ Self-Zero Capture button after 180° Rotation of Unit X.
Displays the captured value in the right column.
㉓ Displays Self-Zero Correction Value for Unit X.
㉔ [Cfm/Clr] button for Self-Zero Correction Value of Unit X.

㉕ Self-Zero Capture button for Unit Y.
Displays the captured value in the right column.
㉖ Self-Zero Capture button after 180° Rotation of Unit Y.
Displays the captured value in the right column.
㉗ Displays Self-Zero Correction Value for Unit Y..
㉘ [Cfm/Clr] button for Self-Zero Correction Value of Unit Y.

2. Setting the ID Number of Two Units Placed on the X and Y Axes



■ Enter the ID Numbers of Unit X (placed on the X-axis) and Unit Y (placed on the Y-axis).

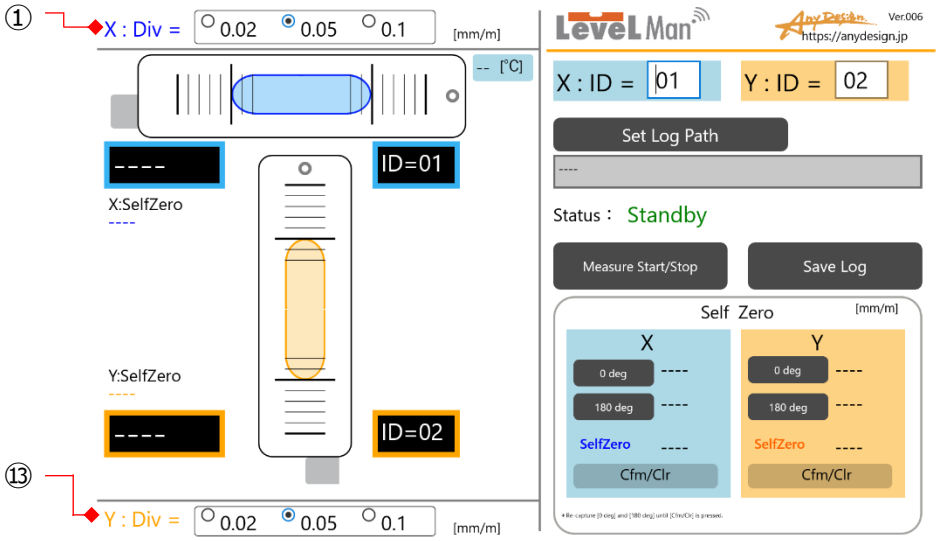
・The ID number is the upper two digits of the last five digits of the serial number on the label attached to the main unit (highlighted in red).

Example for LevelMan ADL-T5 Series: S/N: 453201100

⑭ Enter the ID Number for Unit X.
⑮ Enter the ID Number for Unit Y.

Once entered, the following fields will also display the IDs:
⑥ ID Number of Unit X
⑨ ID Number of Unit Y

3. Setting the Scale Sensitivity



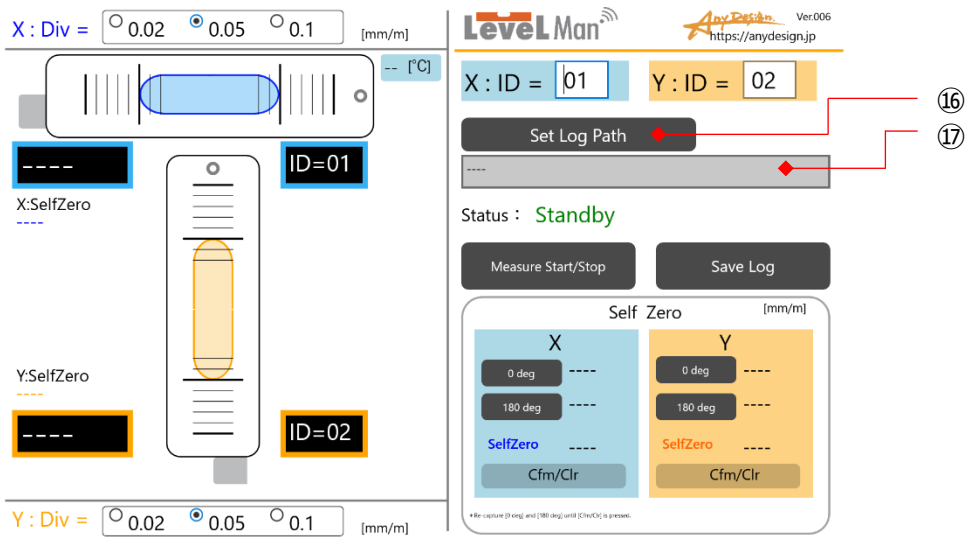
■ The scale sensitivity setting adjusts the bubble movement on the screen, allowing it to function like a level with different sensitivities.

*This does not change the resolution or measurement range of the hardware.

① Set the scale sensitivity for Unit X.
⑬ Set the scale sensitivity for Unit Y.
(In the example screen, 0.05 [mm/m] is set for both.)

*Settings can be changed at any time.

4. Log Folder Settings



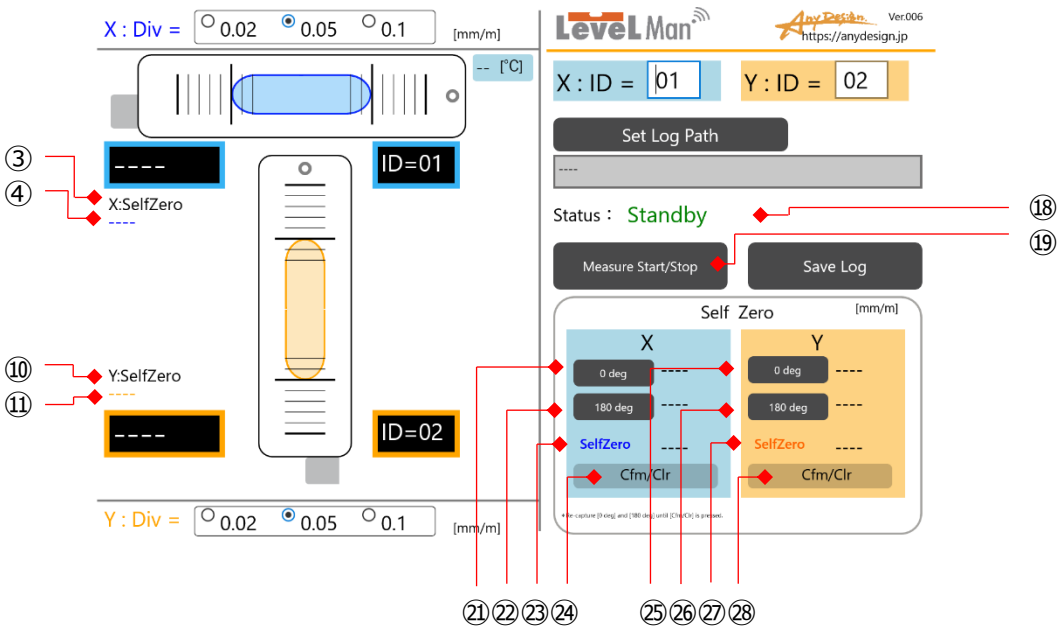
■ Specify the log file to save the measurement results and logs.

Before you can save measurement logs, extract the provided files and place "LVLFree_Log.csv" in the folder where the logs will be saved.

⑯ Press the [Set Log Path] button and select "LVLFree_Log.csv" as the log file.

⑰ The full path of the selected file is displayed.

5. Self Zeroing Settings and Saving



■ Self Zeroing calculates and saves adjustment deviations using the 180° inversion method. The correction value is then automatically applied to the measurement results.

*This correction value is saved in the application, so it does not need to be performed every time the power is turned on. Perform Self Zeroing if there is a difference in values after a 180° rotation.

*This Self Zeroing function allows for easy final fine-tuning of zero adjustment. Once the main unit is fixed with the zero adjustment screw, greater stability can be achieved.

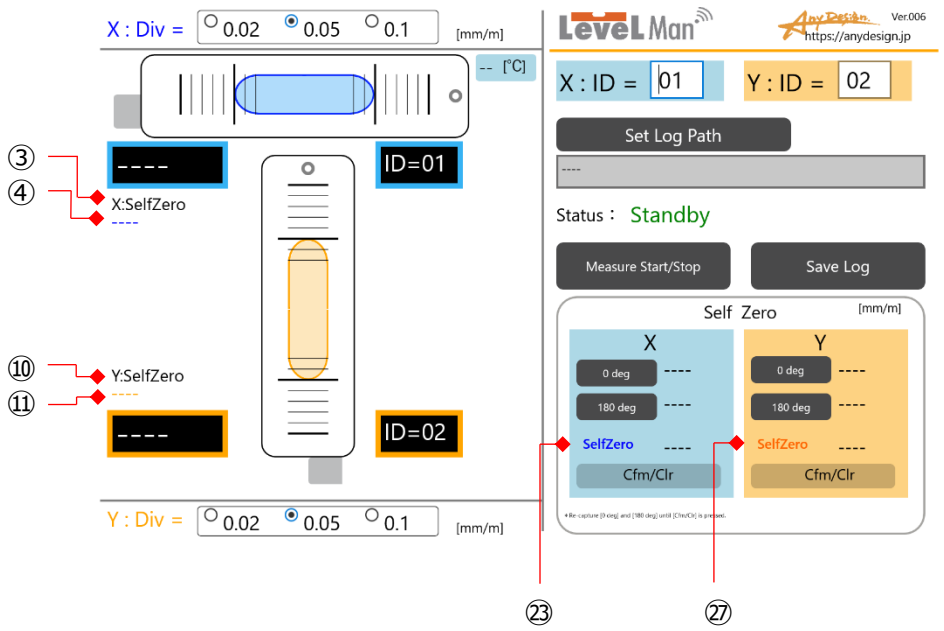
*If the measurement values do not match after a 180° inversion, we recommend performing Self Zeroing again.

(1) Self Zeroing for Unit X

1. Place Unit X quietly on the measurement surface.
2. Press the ⑲ [Measure Start/Stop] button. The ⑱ status display will change to "Measuring...".
3. Press the ㉑ [0 deg] button to capture the Self Zero value for Unit X.
4. The captured value will be displayed in the adjacent field.
5. The Self Zero value can be re-measured any number of times by pressing ㉑ again, until the ㉔ [Cfm/Clr] button is pressed.

(2) 180° Rotated Self Zeroing for Unit X

1. Gently slide and rotate Unit X 180° at the same location.
2. Press the ㉒ [180 deg] button to capture the 180° rotated Self Zero value for Unit X.
3. The captured value will be displayed in the adjacent field.
4. The Self Zero value can be re-measured any number of times by pressing ㉒ again, until the ㉔ [Cfm/Clr] button is pressed.
5. Finalizing the Correction for Unit X.



If the measured values in both the 0° and 180° positions are confirmed to be correct, press the ㉔ [Cfm/Clr] button to save the correction value.

If needed, press ㉔ [Cfm/Clr] again to clear the correction value.
Self Zeroing for Unit Y

(3) Perform the same procedure for Unit Y as described above for Unit X

*The [0°] and [180°] measurements described in the section (1) and (2) can be repeated as many times as needed. Verify that the values are nearly identical by taking multiple readings.

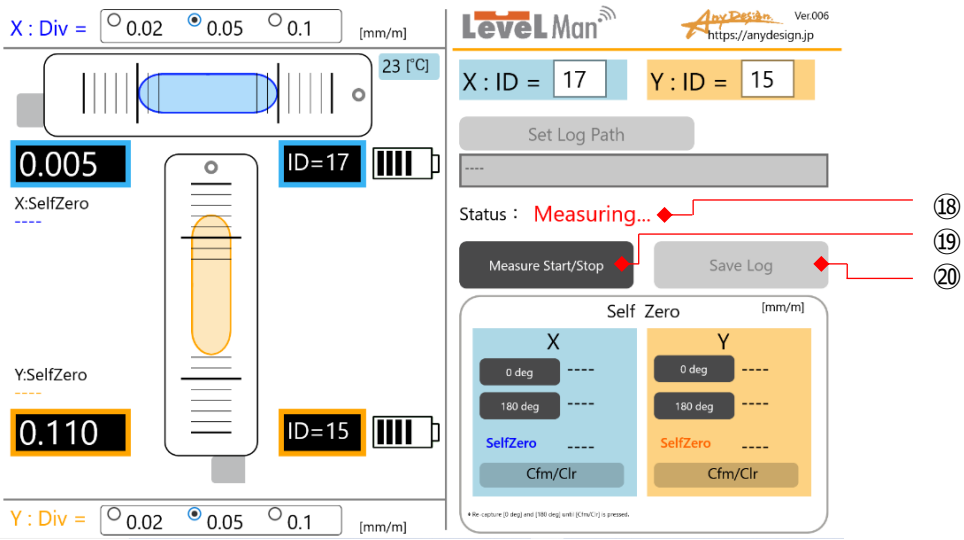
*If the values vary greatly with each measurement, it may indicate that fine debris or an oily film is adhering to, or has become trapped on, the measurement surface.

*Please perform both the forward [0°] and reverse [180°] captures at the same location as much as possible.

(4) Display of Other Elements

③ Displays the Self Zero value for Unit X.
④ Displays the Self Zero correction value for Unit X.
(Displays the value from ㉓.)
⑩ Displays the Self Zero value for Unit Y.
⑪ Displays the Self Zero correction value for Unit Y.
(Displays the value from ㉗.)

6. Measurement and Log Saving

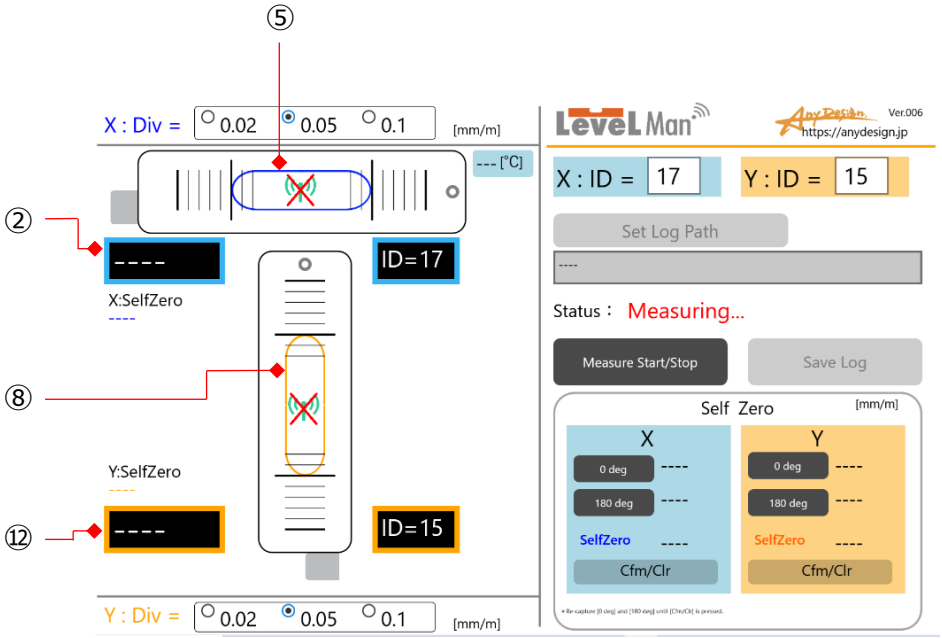


■ Measure the inclination.

Press the ⑲ [Measure Start/Stop] button to begin measuring.
⑱ The status display will show "Standby" when idle and "Measuring..." when active.

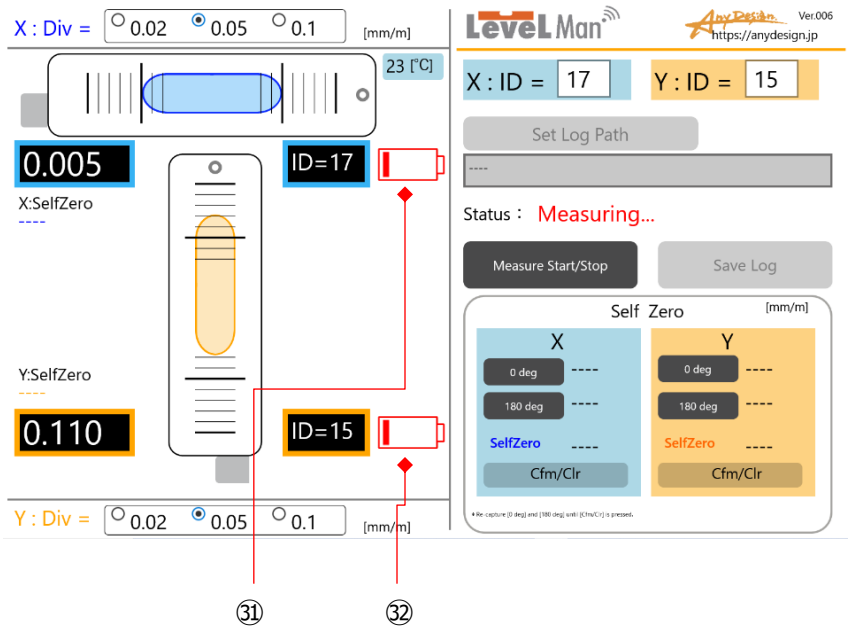
To complete the measurement, press the ⑲ [Measure Start/Stop] button again.
Press the ⑳ [Save Log] button to save the measured data. (Disabled during measurement)

7. Screen Layout & Elements (2): When Connection is Lost



⑤ and ⑧ Display the bubble display when disconnected.
Since no data is received, "____" is displayed.(② and ⑫)

8. Screen Layout & Elements (3): When Battery is Low



㉛ and ㉜ display low battery warnings for unit X and unit Y.

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Please replace the batteries as soon as possible.

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