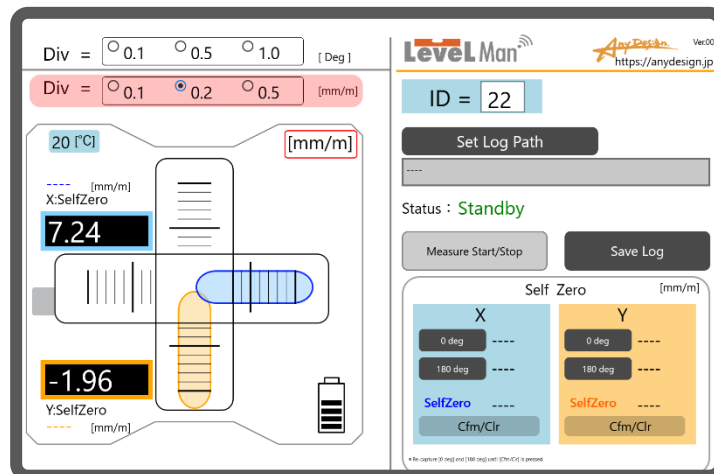*AnyDesign.*

Wireless Digital Level

LeveL Man **LevelMan ADL- G Series**

Included Wireless Applications - G User Manual

Thank you very much for using our wireless application included with the ADL-G 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
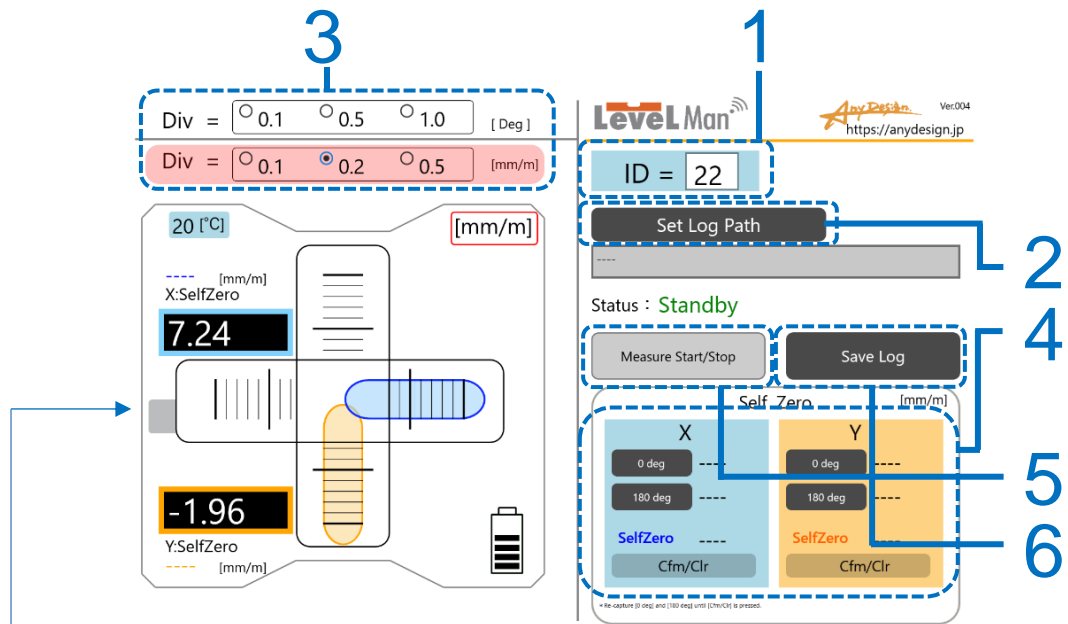
* The gray rectangle represents a Bluetooth adapter
Place the main unit in the indicated direction.

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-G series ----S/N:4532 01 100

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

   * Extract the provided files in advance and place "**LVLFree-G_Log.csv**" in the folder where the logs will be saved.

   * If this file is not placed, the log file cannot be created.

3. Select the inclination unit ([deg] or [mm/m]) and 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.
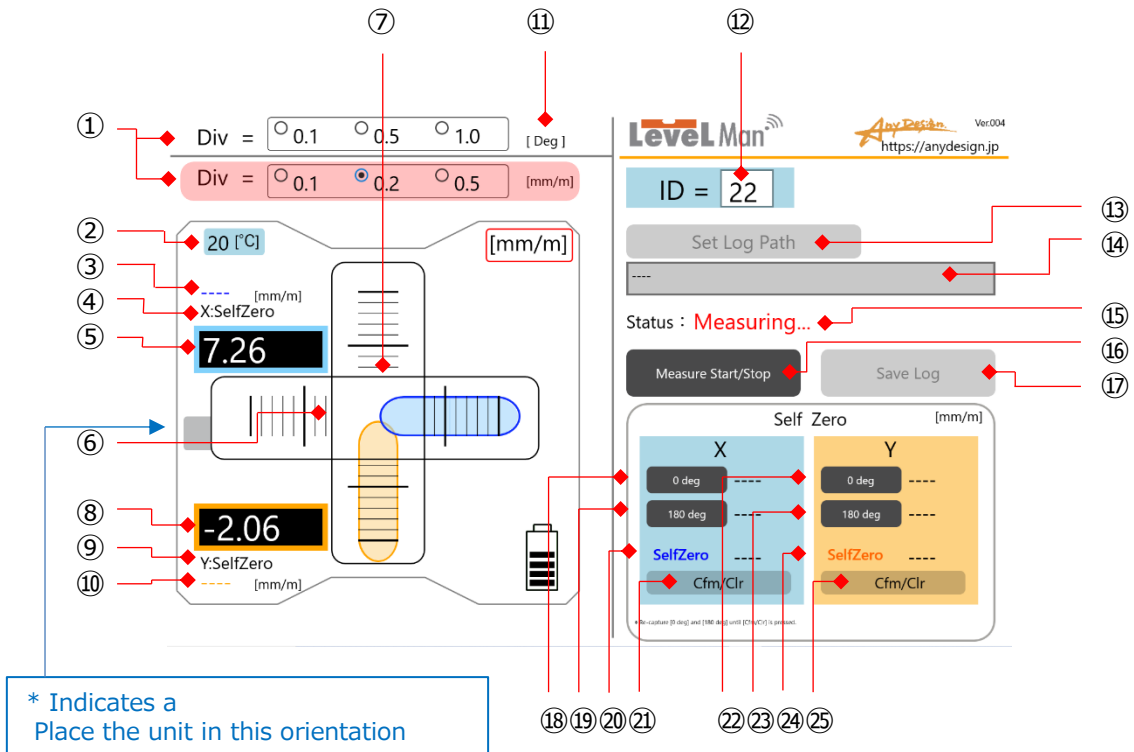
5. Start/Stop Measurement

Ensure step 4 is checked before measuring the Inclination.

6. Save the Log

Table of Contents

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


* Indicates a
  Place the unit in this orientation

①. Select the inclination unit ([deg] or [mm/m]) and set the scale sensitivity of the X and Y levels.
②. Display the internal temperature of the main unit.
③. Display the Self Zero Correction Value for the X axis (only in [mm/m]).
④. Display the Self Zero Value for the X axis.
⑤. Display the Measurement Value for the X axis.
⑥. Bubble Display for the X axis.
⑦. Bubble Display for the Y axis.
⑧. Display the Measurement Value for the Y axis.
⑨. Display the Self Zero Value for the Y axis.
⑩. Display the Self Zero Correction Value for the Y axis (only in [mm/m]).

⑪. Show the inclination unit.
⑫. Enter the LevelMan ID (Refer to Page 4 for ID input).
⑬. Button to specify the log file storage location.
⑭. Display the full path of the selected log file.
⑮. Show the current status: "Stanby" or "Measuring…".
⑯. Start/Stop Measurement button (Pressing toggles between start and complete).
⑰. Log Save button (Disabled during measurement).

⑱. Self-Zero Capture Button for X-axis
Display the captured value in the right column
⑲. After 180° Rotation of X-axis Self-Zero Capture Button
Display the captured value in the right column
⑳. Display Self-Zero Correction Value for X-axis
㉑. [Cfm/Clr] Button for Self-Zero Correction Value of X-axis
㉒. Self-Zero Capture Button for Y-axis
Display the captured value in the right column
㉓. After 180° Rotation of Y-axis Self-Zero Capture Button
㉔. Display Self-Zero Correction Value for Y-axis
㉕. [Cfm/Clr] Button for Self-Zero Correction Value of Y-axis

2. Setting the ID Number of the Main Unit
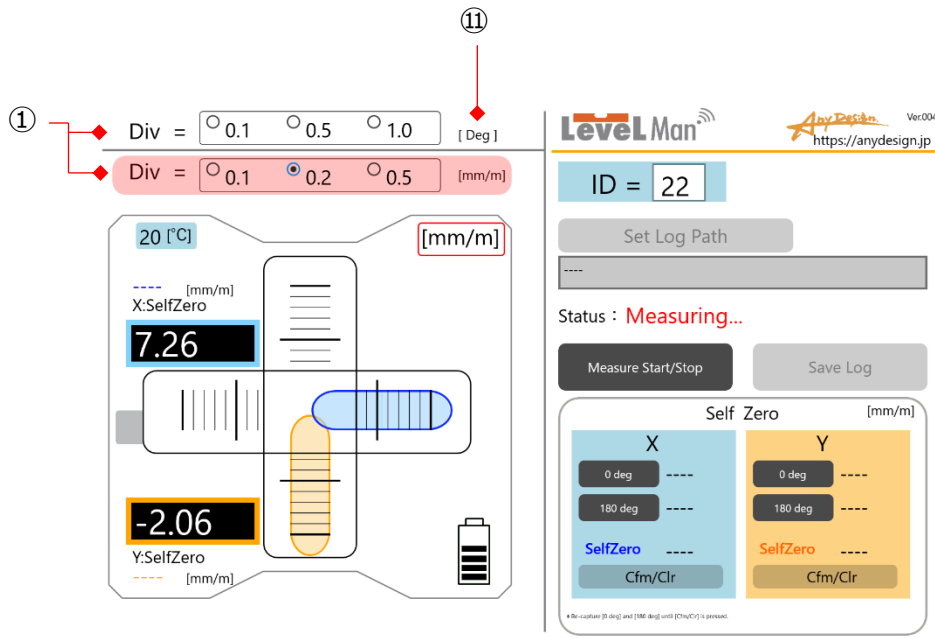
⑫
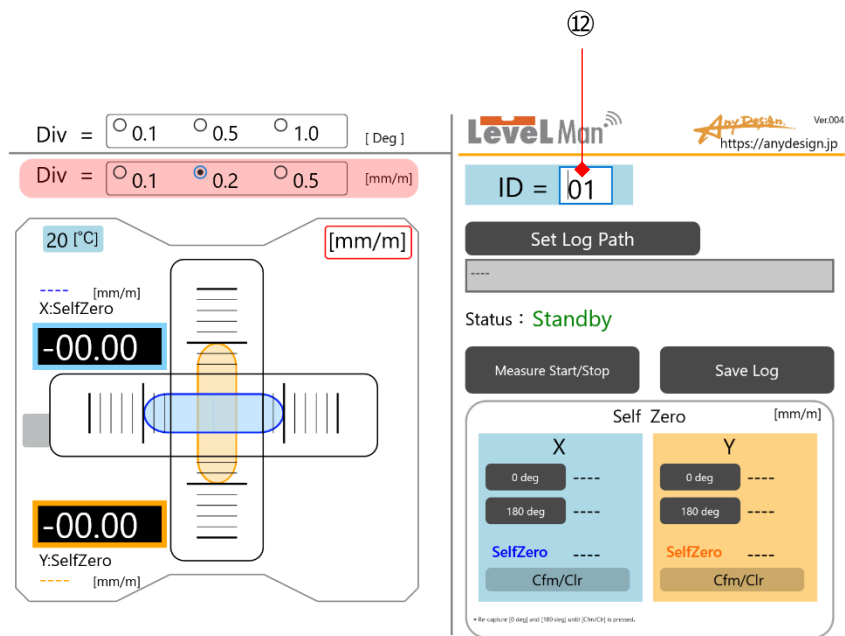
■ Enter the ID Number of the Main Unit

• 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-G Series: S/N: 453201100

⑫ Enter the ID Number of the Main Unit.

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.

①Select the inclination unit and the scale sensitivity simultaneously.

The background color of the selected unit ([deg] or [mm/m]) will turn pink.

In the screen, the unit is set to [mm/m], with each scale division representing 0.2 [mm/m].
This setting can be changed at any time.

*Settings can be changed at any time.

4. Log folder settings
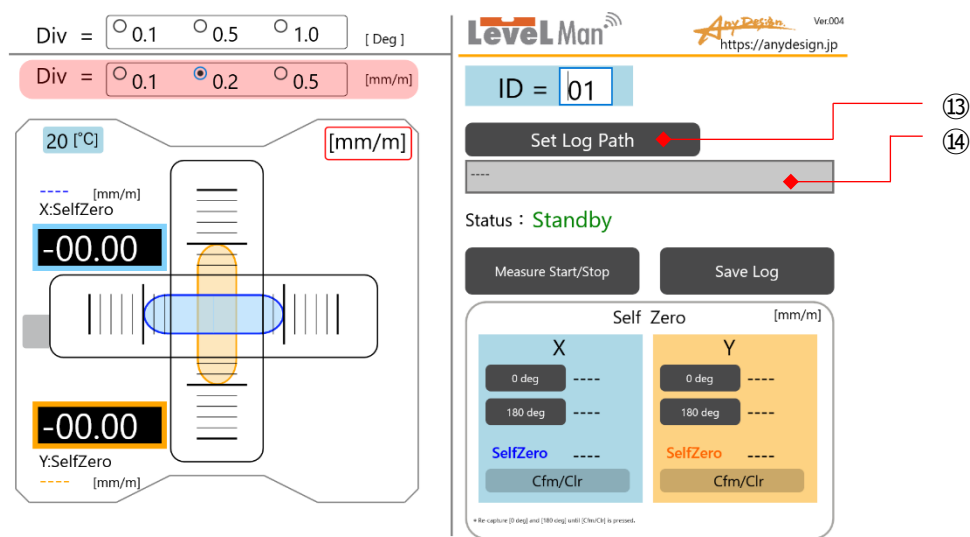
- Specify the log file to save the measurement results and logs.

Beforehand, extract the provided files and place "LVLFree-G_Log.csv" in the log storage folder.
If this file is not placed, the log file cannot be created.

⑬. Press the [Set Log Path] button and select "LVLFree-G_Log.csv" as the log file.

⑭. The full path of the selected file is displayed.

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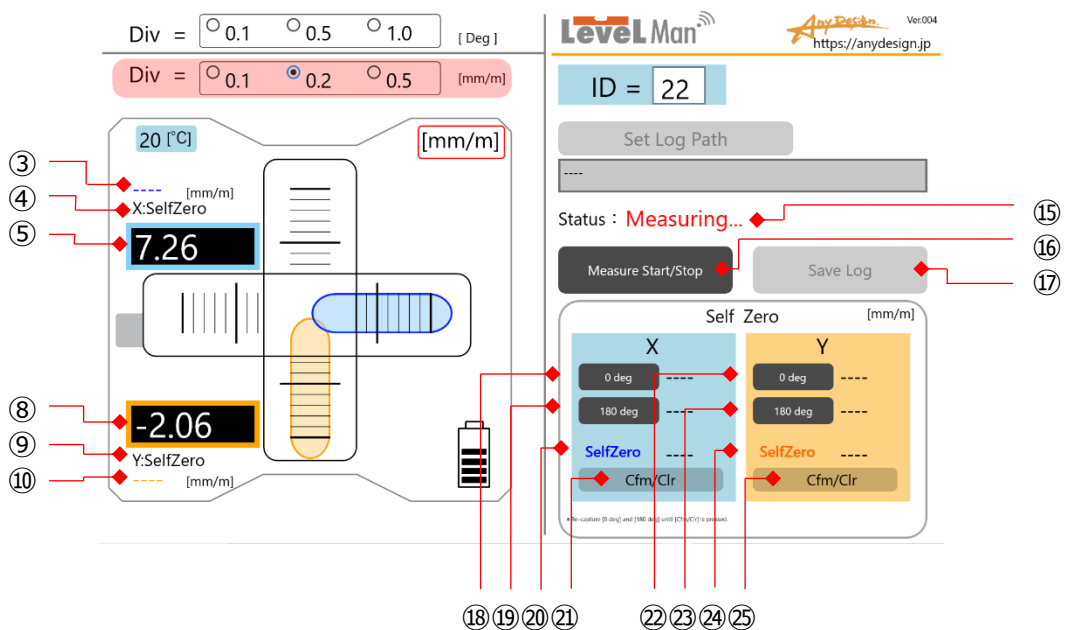
■ Self Zeroing calculates and saves adjustment deviations using the 180° inversion method. The correction value is then automatically applied to the measurement results.

*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.

(1) Initial Self Zeroing

1. Place the unit quietly on the measurement surface.
2. Press the ⑯ [Measure Start/Stop] button. The ⑮ status display will change to "Measuring...".
3. Press the ⑱ and ㉒ [0 deg] button to capture the X and Y axis Self Zero Values.
4. The captured values are displayed in the adjacent field.
5. The Self Zero value can be re-measured any number of times until the ㉑ and ㉕ [Cfm/Clr] button is pressed.

(2) 180° Rotated Self Zeroing

1. Gently slide and rotate the main unit 180° at the same location.
2. Press the ⑯ [Measure Start/Stop] button. The ⑮ status display will change to "Measuring...".
3. Press the ⑲ and ㉓ [180 deg] button to capture the 180° rotated Self Zero Values.
4. The captured values are displayed in the adjacent field.
5. The Self Zero value can be re-measured any number of times until the ㉑ and ㉕ [Cfm/Clr] button is pressed.

(3) Finalizing the Correction

If the user determines that the measured values in both the forward and 180° rotated positions are correct, press ㉑ and ㉕ [Cfm/Clr] to save the correction value.

If needed, press ㉑ and ㉕ [Cfm/Clr] again to clear the correction value.
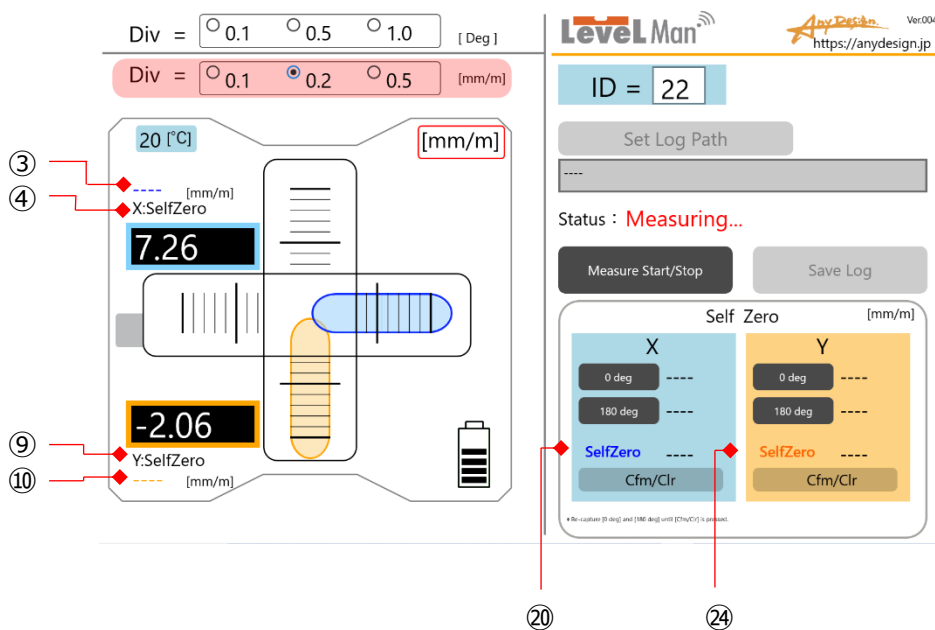
The [0°] and [180°] measurements described in sections (1) and (2) can be repeated as many times as needed. Verify that the values are nearly identical by taking multiple readings.

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.

(3) Display of Other Elements

③ Display the X-axis self-zero correction value.
　　(Displays the value from ⑳, shown only in [mm/m].)
④ Display the X-axis self-zero value.
⑨ Display the Y-axis self-zero value.
⑩ Display the Y-axis self-zero correction value.
　　(Displays the value from ㉔, shown only in [mm/m].)

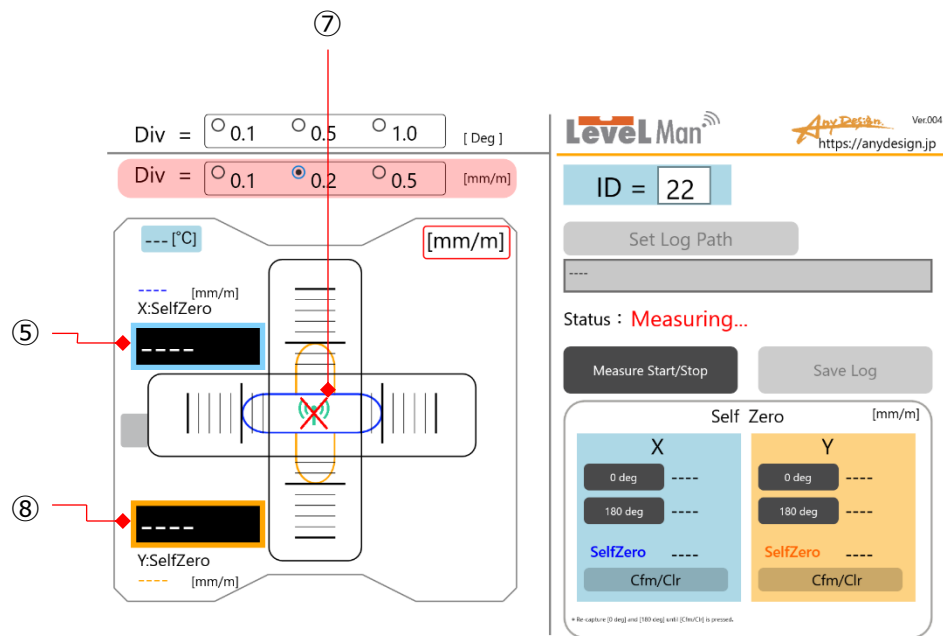# 6. Measurement and log saving
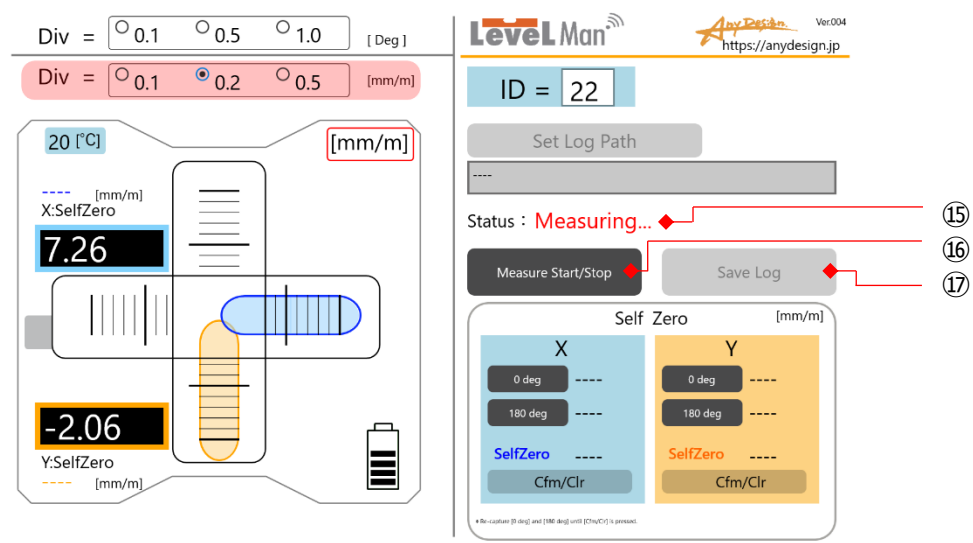
■ Measure inclination.

Press the ⑯ [Measure Start/Stop] button to begin measuring.
⑮ The status display will show "Standby" when idle and "Measuring..." when active

To complete the measurement, press ⑯ [Measure Start/Stop] button again.
Press ⑰ [Save Log] to save the measured data (Disabled during measurement).

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

⑦

Div = ◯ 0.1   ◯ 0.5   ◯ 1.0   [Deg]

Div = ◯ 0.1   ◉ 0.2   ◯ 0.5   [mm/m]

--- [°C]   [mm/m]

---- [mm/m]
X:SelfZero

⑤ ----

⑧ ----

Y:SelfZero
---- [mm/m]

LeveL Man   AnyDesign   Ver.004
https://anydesign.jp

ID = 22

Set Log Path

Status : Measuring...

Measure Start/Stop   Save Log

Self Zero   [mm/m]

X		Y	
0 deg	----	0 deg	----
180 deg	----	180 deg	----
SelfZero	----	**SelfZero**	----
Cfm/Clr		Cfm/Clr	

* Re-capture [0 deg] and [180 deg] until [Cfm/Clr] is pressed.

---

⑦ Display the bubble display when disconnected.

Since no data is received, "____" is displayed (⑤ and ⑧).

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

㉖
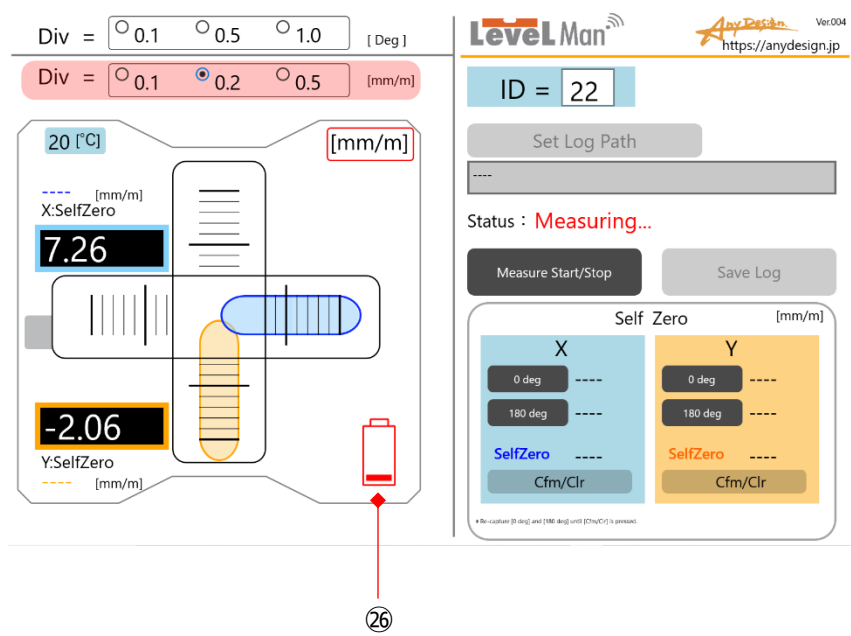
㉖ Displays a low battery warning.

Please replace the battery as soon as possible.

Any Design Co., Ltd.

1-43-22 Koremasa, Fuchu City, Tokyo Japan 183-0014
TEL : +81-(0)42-315-9801 (in Japanese only)
E-Mail : info@anydesign.jp (in Japanese and English)
URL : https://anydesign.jp/