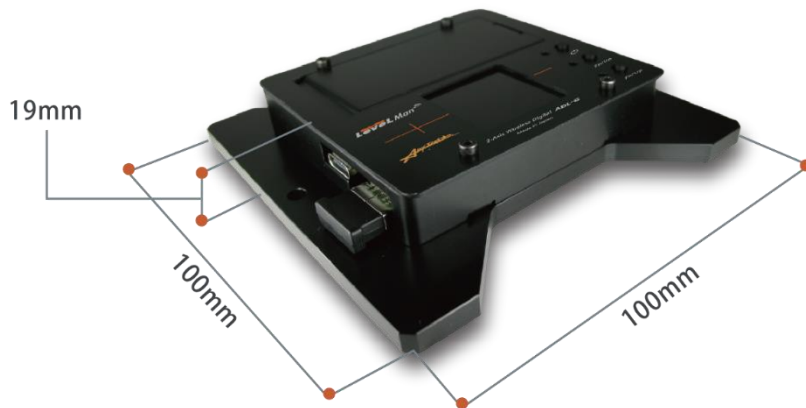Wireless Digital Level

Level Man ADL-G Series

User Manual

Thank you very much for purchasing the ADL-G series.

- Please read this manual carefully to ensure correct and safe use.
- Before use, please be sure to read "1. Safety Precautions."
- We hope this product provides you with accurate measurements and long-term reliability.
- After reading, please store this manual and the device in a safe place.

Table of Contents

1. Safety Precautions

■ Do not disassemble.
  - There is a risk of injury.
  - Disassembly will damage the product and void the warranty.

■ Do not subject to impact.
  - There is a risk of malfunction.

■ Be sure to insert the batteries with the correct polarity.
  - The terminal side of the spring is "-". Reversing the polarity may cause a malfunction or damage to the battery.
  - The batteries required are two AA batteries .

■ The storage temperature for LevelMan is 20±20[℃] .
  - Please be careful not to leave it in a car or other places.

2. Included Items

① LevelMan
　Main unit
(Number of units
ordered)

③ AAA battery
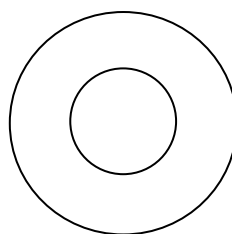　(Sample)

④ Tablet
　(Option)

② Bluetooth 4.0 adapter is not included with products for export or overseas use.
Please prepare one in accordance with local laws and regulations.
We recommend sending it to us in advance for operation verification.

⑤ Inspection Report	⑥ Traceability Diagram	⑦ CD

⑦ The CD contains the following electronic files, so please use them.

- ⑤ Inspection Report
- ⑥ Traceability Diagram
- Included Wireless Application - G

**Following instruction manuals and application software are updated regularly.
Please download the latest version from the "To All Purchasers" page.**

- ADL-G Series User Manual
- ADL-G Series Included Wireless Application Installation Manual
- ADL-G Series Included Wireless Application User Manual

- Included Wireless Application-G Software

"To all customers" page
URL https://anydesign.jp/support/purchaser_support/

3. Parts and Functions

Power Button

Function Button 1
(for expansion)

Function Button 2
(for expansion)

USB-C
(Wired
communication &
power supply)

USB-A
 (Bluetooth
4.0 Adapter

Operation Panel

4. Battery Box
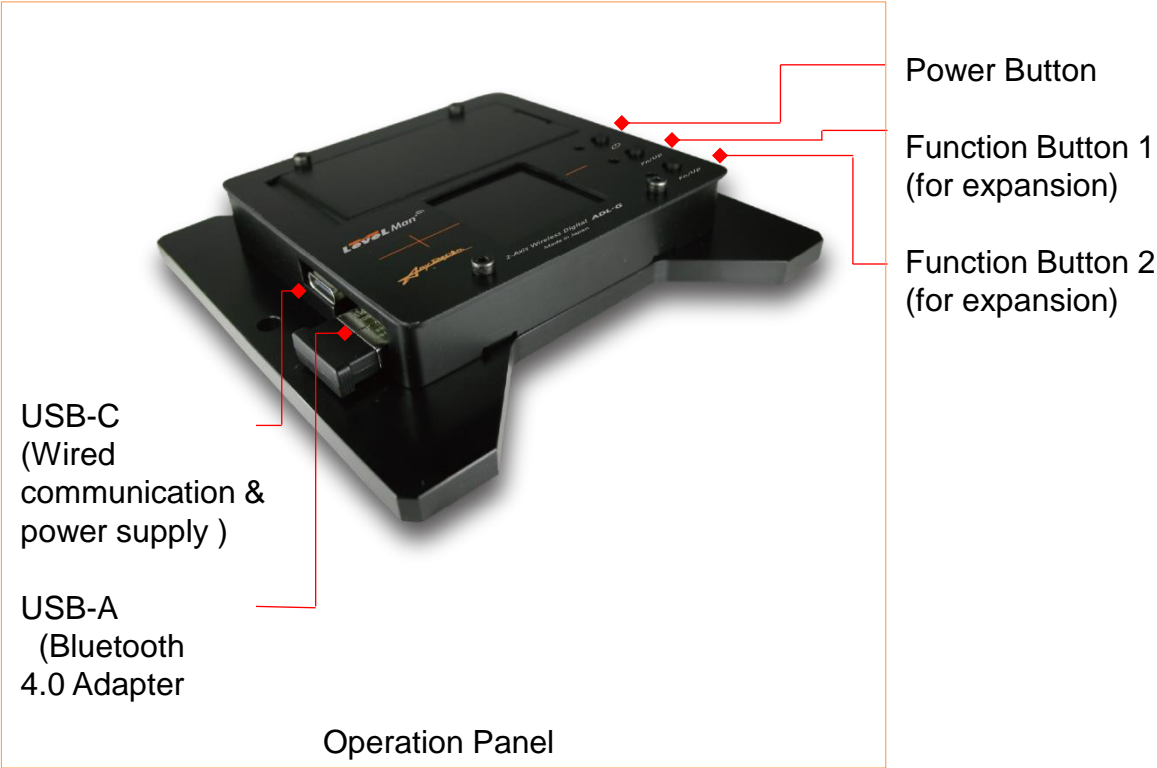
Battery Box Cover

Battery Box

■ Insert the batteries correctly.

- The box cover slides left and right to open and close.
- If it is difficult to open or close, press it slightly with your finger and then slide it left or right as shown by the arrows in the illustration.
- Be sure to insert the batteries with the correct polarity.
  - The terminal side of the spring is "-". Reversing the polarity may cause a malfunction or battery damage.
  - Uses two AAA batteries.

5. How to Use

5.1 Preparation

5.1.1 Degrease and Clean the Measuring Surface and the Measuring Object

- Make sure there is no rust or scratches on the measuring surface of the LevelMan.
- Be sure to thoroughly degrease and clean the the measuring surface of the LevelMan.
- Be sure to also degrease and clean the measuring surface of the object being measured.

5.1.2 Thermal Equilibrium

- The power to the device can be turned off . Ensure sufficient thermal equilibration before proceeding with measurements.
- If the temperature of the object being measured and the level differ, the temperature difference will cause distortion on the measuring surface of the level, which is in close contact with the object, and this may result in measurement errors.

5.2 Power ON/OFF

- When using batteries, press and hold the power button to turn the power
- When connected via USB-C, it will turn the power.

5.3 Warming Up

- For stable measurements, a warm-up period of at least 1 minute is recommended.

5.4 Zero Position Confirmation

- If rotating the unit 180° at the same location results in different readings, use the "Self Zero" function via Wireless Application-G to calibrate the zero position.

6. Measurement and Logging

- The unit continuously measures while powered on.

- Wireless Application-G allows logging of up to 10 sets of X-axis, Y-axis, and temperature (reference value) data with timestamps.

7. Storage

- After use, clean the measuring surface carefully.
- Remove the batteries for long-term storage.
- Storage temperature: 20±20[°C]
- Avoid leaving the device in extreme environments such as inside a vehicle.

8. Troubleshooting

Note

■ The measured value is not stable

- Check for temperature fluctuations during measurement.
- Ensure the measuring surface is smooth and free of irregularities.
- Check for battery deterioration.
- A fluctuation of one count at the least significant digit is normal due to digitization errors.

■ "0.999 mm/m" Displayed

- This indicates an error requiring adjustment.
- Contact your dealer for assistance.

■ Rust on the Measuring Surface

- Accurate measurement may not be possible. Repairs are recommended.
- Contact your dealer for assistance.

■ Calibration Request

- Periodic calibration is recommended to maintain measurement accuracy.
- This device includes a linearizer function that performs re-linearization during calibration, maintaining high accuracy.
- Contact your dealer for calibration services.

9. Specifications

MODEL	ADL-G-020	ADL-G-100
■ **Sensing Unit**	X-axis (Roll angle), Y-axis (Pitch angle)	
Minimum Readable Value	0.02 mm/m	0.1 mm/m
Measurement Range	±0.06 mm/m	±0.3 mm/m
Measurement Accuracy	±99.99 mm/m	±99.99 mm/m
Response Time	Approx. 0.5 s	
■ **Temperature Sensing Unit**		
Measurement Range	0.0～40.0 ℃ (Internal temperature of the unit)	
■ **Common Unit**		
Data	Inclination value, temperature, battery alert and wireless communication loss alert	
Data Port	Wired: USB-C / Wireless: Bluetooth 4.00 adapter (included) - Continuous output via wired and wireless connections	
Power supply	Wired: USB-C Battery: 2 × AAA (NiMH rechargeable recommended, alkaline included)	
Continuous Use	50 hours (900 mAh battery)	
Measurement Base Dimensions	L100 x D100 x H6 mm (High flatness corrosion-resistant aluminum)	
Overall Unit Dimensions	L100 x D100 x H19 mm	
Unit weight	0.18kg	
Operating Temperature	20 ℃ ±10 ℃	
Storage Temperature	20 ℃ ±20 ℃	
■ **Standard inclusion**	Included Wireless Application (Windows 11), Inspection Report, Calibration Certificate, Traceability diagram	

■ **Option**		
Measurement Base	V-grooved measurement base (L100mm)	
	V-groove adapter(L100mm)	

＊ Specifications are subject to change without notice.

Any Design Co., Ltd.

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E-Mail : info@anydesign.jp (in Japanese and English)
URL : https://anydesign.jp/

10. Warranty Certificate

WARRANTY CERTIFICATE

Product Name: LevelMan
Model No.:   ADL-G

Warranty Period: One (1) year from the date of purchase
*Date of Purchase: _____ Year _____ Month _____ Day

Customer Information:

*Company Name: _____
*Address: _____
*Contact Name: _____
*Phone Number: _____
*E-mail: _____

Distributor Information:

*Company Name: _____
*Address: _____
*Contact Name: _____
*Phone Number: _____
*E-mail: _____

[Note to Distributors]
Please ensure that all fields marked with an asterisk (*) are completed before handing over this certificate.

Warranty Terms:

- *Free repair or replacement will be provided for malfunctions occurring during normal use within one year of purchase*.
- *The following are **not** covered under warranty:*
  - Damage due to misuse, mishandling, or interference from other devices
  - Theft, fire, or natural disaster
  - Unauthorized disassembly, modification, or abnormal power supply
  - Missing or incomplete warranty certificate
- This warranty is *valid **only in Japan**.*