

## User manual

### DIGITAL POST LEVEL

DWL1000 XY (0.05° resolution)



JIM1000XY-001-F09



Product of Singapore

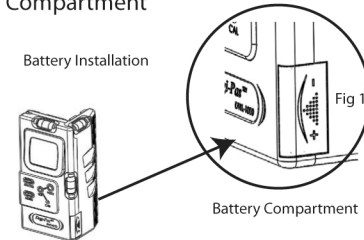
#### 1. Kit Contents

| Description               | Quantity |
|---------------------------|----------|
| Digital Post Level Device | 1        |
| "AAA" Alkaline Batteries  | 2        |
| Aluminium Jig             | 1        |

#### 2. Technical Specification

|                                     |   |
|-------------------------------------|---|
| Resolution                          | ± 0.05°   |
| Accuracy                            | ± 0.10°   |
| Post Level Measuring Range          | 0° ~ ± 45°  |
| Digital Level Angle Measuring Range | 0° ~ ± 90°  |
| Operating Temperature               | 0°C ~ ± 50°C  |
| Power Supply                        | 2x "AAA" 1.5V batteries                             |
| Estimated Battery Life              | 150 hours (backlite on)<br>350 hours (backlite off) |
| Dimension                           | 61 x 121 x 52 mm                                    |
| Weight                              | 496g  |

#### 3. Battery Compartment

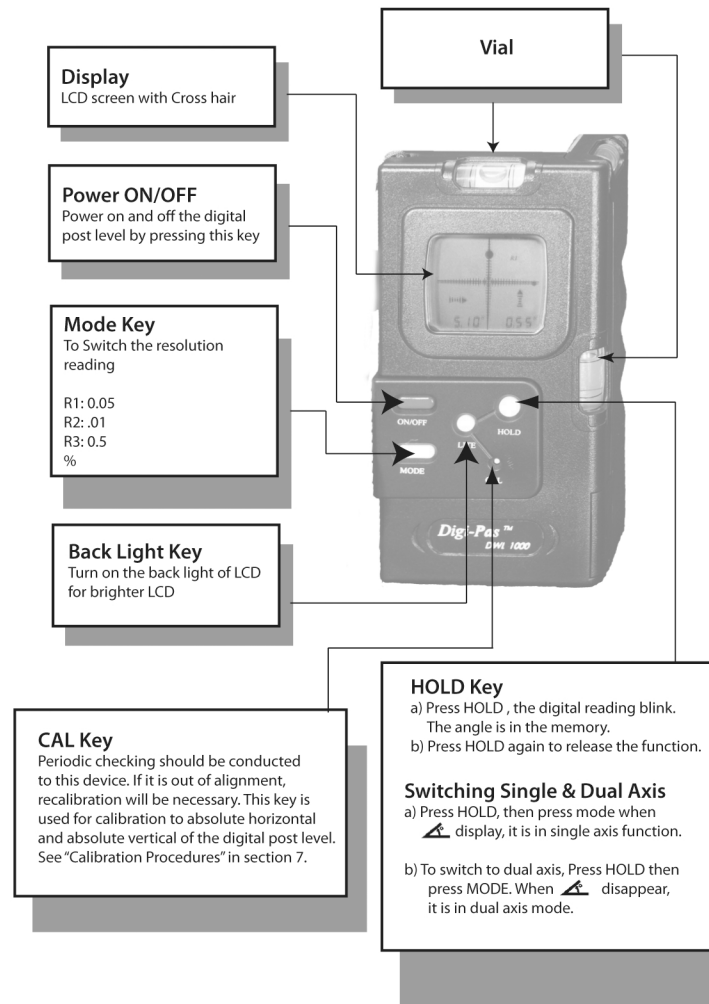


1. Open the battery cover, located as vertical side plastic (See Figure 1).
2. Insert 2 new "AAA" alkaline batteries with polarity (+/-) as indicated on the battery compartment.
3. Close the battery door securely in place.

**IMPORTANT NOTICE:**  
It is the responsibility of the user to verify the calibration of the post level before each use.

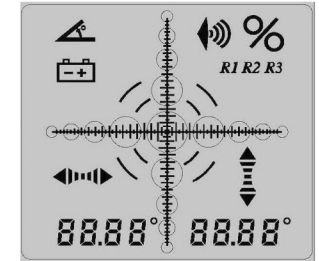
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#### 4. Using the Product



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#### 5. LCD Screen Icon



- Indicate direction of inclination
- Indicate proximity to target
- Indicate zero level achieved
- Indicate batteries need to be replaced
- Indicate beep sound is activated via "Mode" button
- Indicate single axis function
- R1 R2 R3** Indicate the selection of resolution:
  - R1: 0.05
  - R2: 0.1
  - R3: 0.5
- %** Indicate percentage mode
- 8888** Indicate angle of pitch and roll in percentage or degree. (See the relationship of vial and digit reading pairing details)

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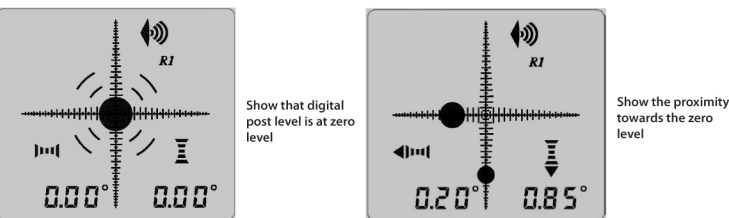
#### 6. Special Features and Functions

**Buzzer Function** Hold the "Mode" button for 4 sec to switch the buzzer on and off.

**Automated Shut-Off**  
This digital post level will shut-off automatically after 10 minutes.

**Low-power indication** When voltage is low, battery symbol will be shown on the LCD. This indicate batteries need to be replaced.

**Dual Angle Measurement** Provide the measurement reading for both pitch and roll axis. It is suitable to determine exact angle between two surfaces.



Digital Level Mode

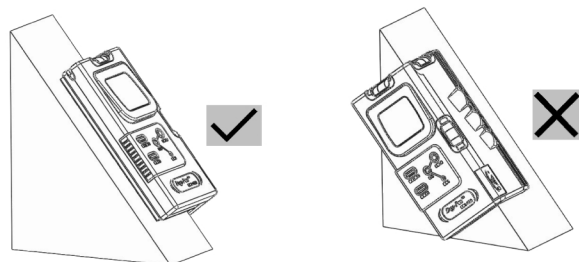
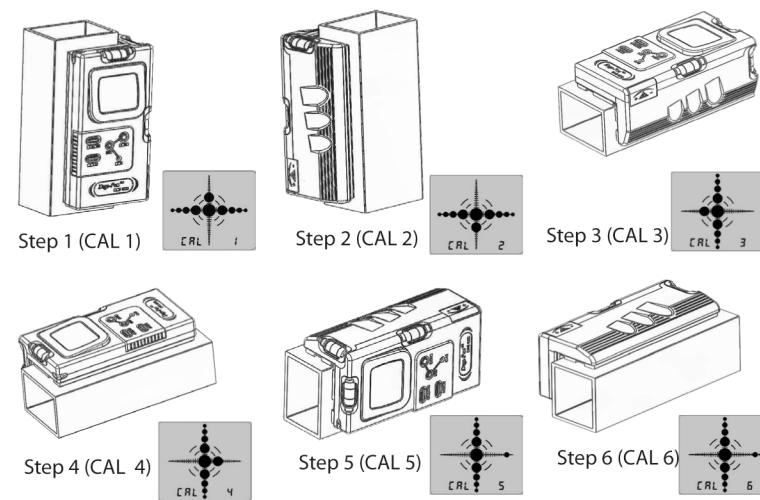


Figure above shown the correct usage in digital level mode

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#### 7. Calibration Procedures

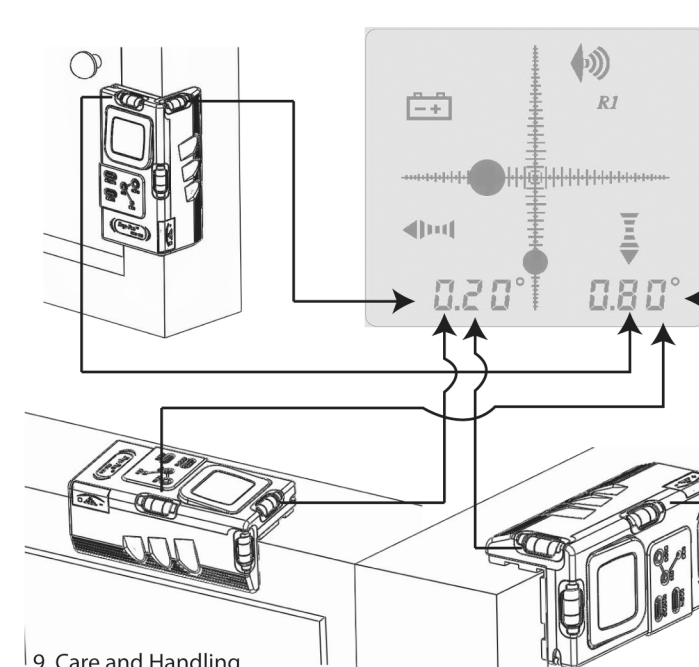


**Caution:** Digital Post Level device is calibrated in the factory for maximum accuracy. User only need to re-calibrates when necessary.

- 1) Press the CAL button. "CAL 1" show on digital display. Place the device as shown in the step 1. Ensure both surfaces of the aluminium bar are in full contact with the calibration bar. Press the "MODE" button, wait for the countdown from 10 to 1. "CAL 2" show on display.
- 2) Place the device on the reverse side of calibration bar as shown in the step 2. Press the "MODE" button and wait for countdown from 10 to 1. "CAL 3" will be shown on display.
- 3) Place the device as shown in the step 3. Press the "MODE" button and wait for the countdown from 10 to 1. "CAL 4" will be shown on display.
- 4) Rotate the device 180 degree horizontally as shown on the step 4. Press the "MODE" button and wait for the countdown from 10 to 1. "CAL 5" will be shown on the screen.
- 5) Place the device as shown in the step 5. Press the "MODE" button and wait for the countdown from 10 to 1. "CAL 6" will be shown on display.
- 6) Rotate the device 180 degree horizontally as shown on the step 6. Press the "MODE" button and wait for the countdown from 10 to 1.
- 7) A long beep sound will signal, calibration is completed.

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#### 8. Relationship of Vial and Digital Reading Paired



#### 9. Care and Handling

- Avoid exposing unit to shock vibrations and extreme temperatures.
- Before moving or transporting the unit, make sure that the unit is turned off.
- Remove the batteries when storing the unit for an extended time (more than three months) to avoid damage to the unit should the batteries deteriorate.
- Always store the unit in its case when not in use.

#### 10. Cleaning Procedure

- Keep the level dry and clean. Remove any moisture or dirt with a soft, dry cloth.
- Do not use harsh chemicals, strong detergents or cleaning solvents to clean the level.
- Do not submerge device in water while cleaning. Wiping or cleaning on device surface is sufficient

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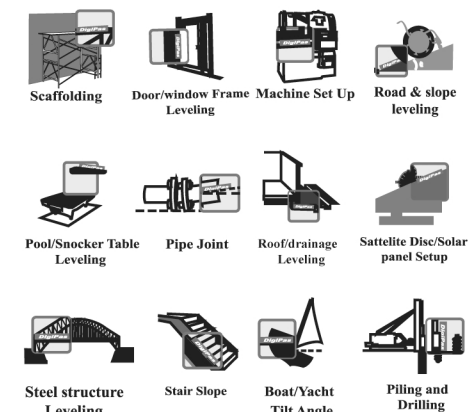
#### Warranty

The **Digi-Pas®** Digital level is warranted to the original purchaser to be free from defects in workmanship and material. JSB Tech will, at its option, repair or replace any defective part which may malfunction under normal and proper use within a period of 1 (one) year from the date of shipment. The foregoing warranty shall not apply to defects resulting from misuse, abuse or transfer by the Buyer, Buyer-supplied software or interfacing, unauthorized modification or operation outside of environmental specifications for the product. JSB Tech does not warrant that the operation of the instrument software, or firmware, will be uninterrupted or error free. The exclusive remedy under any and all warranties and guarantees, expressed herein, and we shall not be liable for damages from loss or delay of equipment uses, consequential, or incidental damage. No other warranty is expressed or implied. JSB Tech specifically disclaims the implied warranties of merchantability and fitness for a particular purpose.

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