

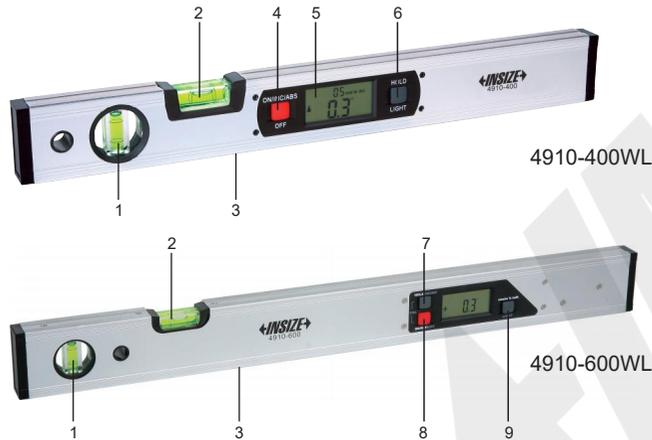


# OPERATION INSTRUCTION

## BUILT-IN BLUETOOTH DIGITAL LEVELS AND SLOPE METERS

Code	Range	Resolution	Accuracy	Remark *
4910-400WL	0~360° (90°×4)	angle: 0.1°	±0.2°	both angle and slope are displayed (slope is calculated by angle)
4910-600WL	0~360° (90°×4)	at 0° and 90°: 0.05°; at others: 0.1°	at 0° and 90°: ±0.1°; at others: ±0.2°	at 0° and 90° buzzer alarm
4910-1000WL	0~360° (90°×4)	at 0° and 90°: 0.05°; at others: 0.1°	at 0° and 90°: ±0.1°; at others: ±0.2°	at 0° and 90° buzzer alarm

\* mm/m=tan(°)x1000, for example: 0.3°=tan (0.3)x1000=5mm/m



- 1-Longitudinal bubble
- 2-Transverse bubble
- 3-Measuring surface
- 4-"ON/INC/ABS/OFF" button
- 5-LCD display

- 6-"HOLD/LIGHT" button
- 7-"HOLD/SOUND" button
- 8-"ON/REF/OFF" button
- 9-"mm/m % in/ft / LIGHT" button

1. The sea level is permanently set inside the chip, zero setting is not needed when batteries replaced.
2. The instrument with transverse and longitudinal vials is used as level and slope. The instrument has magnetic bottom, it can be used on surface.
3. Install the battery:
  - Remove the battery cover(Fig.1)
  - Insert two AAA batteries as the Fig.2, install battery cover

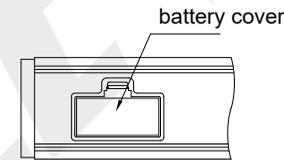


Fig.1

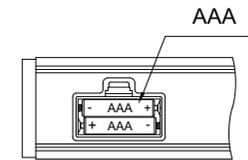


Fig.2

#### 4. Button

##### 4910-400WL:

**ON/REF/OFF**---In the off state, short press to turn on. When the device is turned on, short press to switch between the horizontal measurement mode and the relative measurement mode. When switching to the relative measurement mode, it shows 0. Long press to shut down.

**HOLD/LIGHT**--- Press briefly. The display shows an "H", and the screen locks. Press briefly again to release the lock and return to the measurement state. Long press to turn on/off the backlight.

##### 4910-600WL/1000WL:

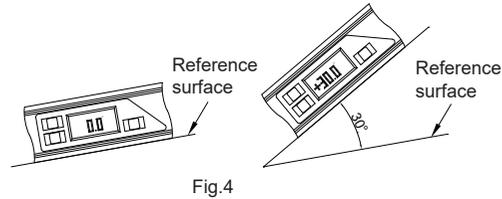
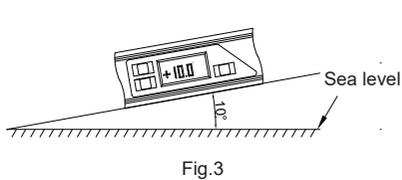
**ON/REF/OFF**---In the off state, press briefly to power on. When the device is turned on, briefly press to switch between the horizontal measurement mode and the relative measurement mode. In the relative measurement mode, "REF" appears on the screen and is simultaneously set to the relative zero point. Long press to shut down.

**HOLD/SOUND**---Short press, the display shows an "H", and the screen locks. Short press again to release the lock and return to the measurement state. Press and hold to turn on the buzzer. The display (🔊) will appear. When approaching 0° and 90°, the buzzer will beep as a prompt. Press and hold again to turn off the buzzer.

**Mm/m % in/ft/LIGHT**---Short press switch unit of measure (°, mm/m, %, in/ft); Long press to turn on the backlight, and long press again to turn it off.

5. Measurement :

The instrument is at level mode. Put the instrument on the surface which is measured. The reading shows the level of this surface (fig.3). Put it on the reference surface, press button to set zero (the reading is zero) into relative mode. Move the instrument to the second surface, the reading is the angle between two surfaces(Fig.4).



- 6. The instrument can use in 4-orientation, the display flips over when the bottom faces up.
- 7. Automatic power off in about 5 minutes. One battery will last for 100 hours of continuous use. If product is not be used for a long period of time, please remove the battery. Otherwise, liquid may leak from the battery and damage the instrument.
- 8. If the digits do not change when buttons are pressed, take out battery and put it back after 1 minute.
- 9. Working temperature is -10-50°C/14-122°F, relative humidity should not exceed 85%.  
Note: Recalibration is required after it dropped or hited :

**4910-400WL:**

Place the device on a flat surface. With the device OFF, simultaneously press the "ON/INC/ABS/OFF" button and the "HOLD/LIGHT" button. The "-1-" will flash. Short press the "ON/INC/ABS/OFF" button until the "-2-" flashes. At this point, flip the device 180° and return it to its primary position. Short press the "ON/INC/ABS/OFF" button briefly again until the "-2-" flashing ends to complete the proofreading.

**4910-600WL/1000WL:**

Place the device on a flat surface. In the horizontal measurement mode, press the "HOLD/SOUND" button and the "ON/REF/OFF" button simultaneously. The screen will display "-1-"(Figure 5). Short press the "ON/REF/OFF" button, "-1-" flashes. Do not touch the device until "-2-" appears on the screen (Figure 6). At this point, flip the device 180° and return it to its primary position (Figure 7). Then, short press the "ON/REF/OFF" button again, "-2-" flashes until the flashing ends, completing the calibration.

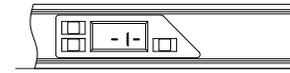


Fig.5

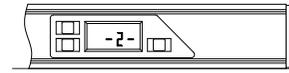


Fig.6



Fig.7

- 11. Built-in Bluetooth, transmission distance is 10m (under the condition of no obstruction and no electromagnetic interference). When the level meter is turned on, the built-in Bluetooth will automatically open.

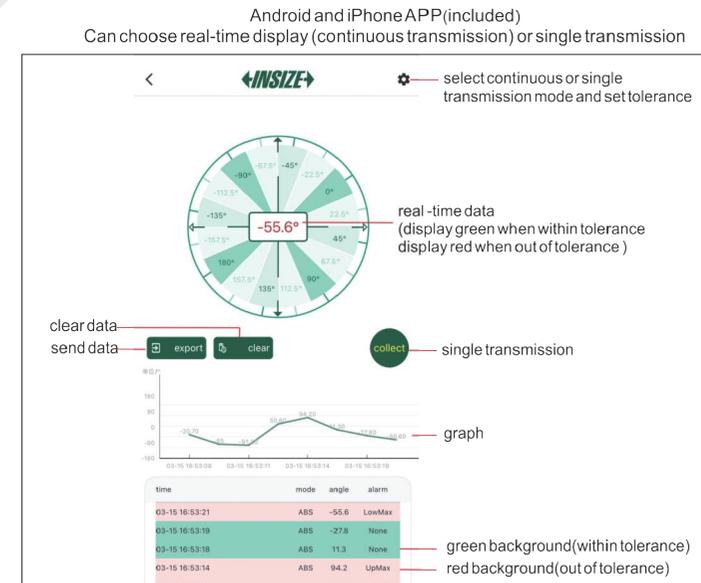
(1). For Android phones in China, download it via <http://app.insize.cn/dl> or scan the QR code.



(2). For IOS phones in China, search the app store under the name "INSIZE data management" to download.

(3). For Android and IOS phones outside of China, search "insisie. dms" in the app store to download.

(4). Use Windows system computer search web site ([www.insize.com/download/2198-2.zip](http://www.insize.com/download/2198-2.zip)) to download and install the software.



MN-4910WL-E

V0