

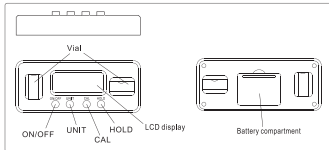
INSTRUCTIONS FOR ELECTRONIC SPIRIT LEVEL

810-168/169/170

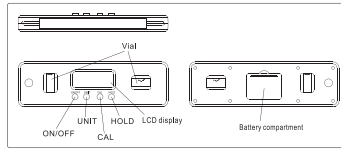
● TECHNICAL SPECIFICATIONS

1. Measuring Range: 4x90°
2. Length of spirit level 100mm/4" □, 150mm/6" □, 200mm/8" □
3. Working Temperature: 0~40℃/32~104 ° F
4. Resolution: 0.1°
5. Accuracy for measuring angle: ±0.3°
6. Power: 3V CR2032 x2

● NOMENCLATURE



100mm/4" Spirit Level



150mm/6" 200mm/8" Spirit Level

● BUTTONS

1. ON/OFF Power switch

Press this button to switch on power and switch it off by pressing it in 3~5 seconds

2. UNIT degree (xx.xx°) and percent of slope (yy.yy%) conversion

Press UNIT, it displays "yy.yy%". ("yy.yy%" = $\text{tga} \times 100\%$ (0 ≤ a ≤ 45°) or "yy.yy%" = $\text{tg}(90^\circ - a) \times 100\%$ (45° < a ≤ 90°)), press it again and it will change back to "xx.xx", mm/m, in/ft

3. CAL (Absolute/relative measurement conversion)

Press this button to preset the plane you need as 0.00° for measuring relative angle. Press this button for 3~5 seconds and it will change back to the state of absolute measurement

4. HOLD (hold)

If the measured value needs to be saved, press HOLD to hold the display. The arrows on both sides will twinkle, press it again it will quit.

● Functions

1. Absolute angle measurement

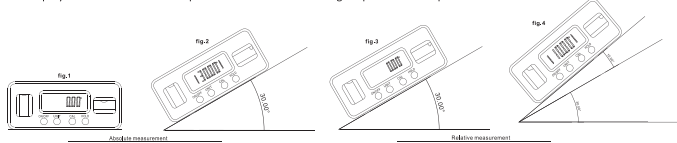
Press ON/OFF and it will directly enter the state of absolute angle measurement. It will display the angle between the measured surface and the level surface. When the angle between the working surface of this Electronic Spirit Level and the level surface changes, the angle value changes accordingly. When the indicating arrows on both sides of the LCD display appears, it shows the working surface of the Electronic Spirit Level is not on the level surface. For example, when the arrow "↑" on one side appears, it shows this side is under the level surface. It needs to move up this side of the digital protractor to reach the level. The arrow "↓" shows it above the level. When it's on the level surface, the indicating arrows will disappear. (fig.1, fig.2)

2. Relative angle measurement

Put this Electronic Spirit Level's working surface on the surface you need to preset, press "CAL" button, "0.00°" is displayed. Then move the Electronic Spirit Level to other surface to be measured, the displayed value will be the angle of the two surfaces. Press "CAL" button for 3~5 seconds, it will change to the state of absolute measurement. (fig.3, fig.4)

3. Upright display

The displayed value would be not upside down whatever this digital protractor is upside down or not.



● Attentions

1. Don't cleanse this precision device with organic solvent. Keep away from water and corrosive.
2. Don't hurt its working surface. Get rid of any dirt on it with soft cloth in order to keep its accuracy.
3. While using, it will shut down if its button is not pressed in 3 minutes in order to save power. When the power icon appears, it shows its power is used up and stops measuring. Replace with two new 3V CR2032 Batteries. Take out the batteries if it's not used for a long time in order to avoid the leakage of battery liquid.
4. Keep this device indoors in -30 °C~+65 °C and relative humidity < 90%.

