

OPERATOR'S MANUAL

Sumner Center Punch Inclinometer

Product Features ▶▶

1. Aluminum alloy enclosure (light weight and durable)
2. Relative/absolute measurement interchange at any position
3. With built-in magnets in measuring surface, which is convenient to be attached to the object measuring workpiece
4. Power-off automatically in 5 minutes
5. Portable size, convenient to co-work with other measuring tools and enlarge measuring range

Technical Parameters ▶▶

1. Measuring range: 4° ~ 90°
2. Resolution: 0.05°
3. Accuracy: $\pm 0.2^{\circ}$
4. Repeatability: 0.1°
5. Battery: 9V battery
6. Working temperature: 0°C ~ 40°C
7. Dimension: 57° ~ 57° ~ 30.5mm
8. With 3 diameter 10mm built-in magnets in measuring surface, which is convenient to be attached to the object measuring workpiece
9. N. Weight: 0.2kg
10. Absolute zero measurement based on the level surface

Function Description ▶▶



ON/OFF Button (ON/OFF)

Press lightly ON/OFF button, the power turns on, it displays absolutely level angle.
Press ON/OFF button again, the power turns off.

HOLD Button(HOLD)



Short press HOLD button, the display will hold the readout data.

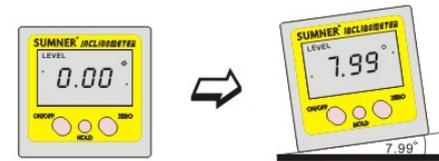
ZERO Button (ZERO)

Set relative zero position.

1. Measurement initially displays 0.00° on the LCD, when it displays "▲" on the left side "▼" on the right side, it means the left side is higher and right side lower; when it displays "▼" on the left side "▲" on the right side, it means the left side is lower and right side higher.
2. Turn on the instrument and begin to measure, the read-out is the measured angle value relatively to the absolute level.
3. The magnets at the bottom allow the instrument to be attached onto iron material measuring object. Press the "ZERO" button, reset the value to proceed relative measurement.

Absolute Measuring Mode▶▶

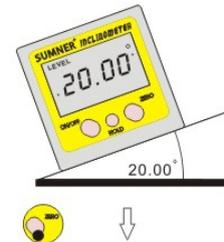
Turn on the instrument and begin to measure, the read-out is the measured angle value relatively to the absolute level(the instrument has been calibrated well the absolute zero position before delivery from manufacturer).



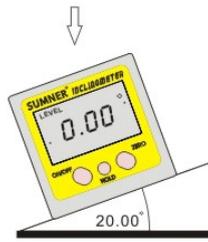
Relative Measuring Mode▶▶

The instrument allows to set zero at any slope as reference surface, and to measure the relative angle based on this slope.

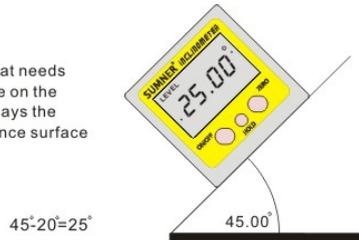
1. When it turns on, put the instrument onto the measuring surface(showing the angle comparing to absolute level)



2. Press ZERO button, it display "0.00".



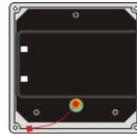
3. Put the instrument on the surface that needs to be measured, or change the angle on the reference surface, the readout displays the angle value comparing to the reference surface (here it is 25°).



Recalibration ▶▶

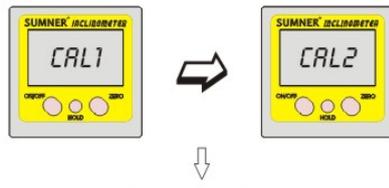
1. screw down the back cover screws and remove the back cover.
2. put the bottom surface of the instrument onto level surface which has been calibrated.

3. insert one foot of tweezer into the hole, which is in the bottom middle of the back plastic battery box, and make the foot contact the calibration metal point in the board, meanwhile, make the other foot of the tweezer contact the metal cover and form conductive path.



4. (1) Hold the instrument and tweezer, and make sure the board calibration metal point connected with the metal enclosure with one hand.

Press the "ON/OFF" button in the front with the other hand, the LCD displays "CAL1"; Take down the tweezer, hold the instrument and keep it still, and then press the "ZERO" button, the LCD displays "CAL2";



(2) Rotate 90 degree clockwise, hold the instrument and keep it still, press the "ZERO" button again, the LCD displays "CAL3";



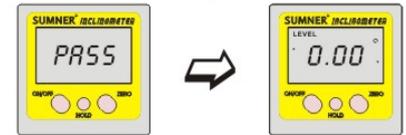
(3) Rotate 90 degree clockwise, hold the instrument and keep it still, press the "ZERO" button again, the LCD displays "CAL4";



(4) Rotate 90 degree clockwise, hold the instrument and keep it still, press the "ZERO" button again, the LCD displays "CAL5";



(5) Rotate 90 degree clockwise, hold the instrument and keep it still, press the "ZERO" button again, the LCD displays "PASS"; then displays "0.00"



(6) Now the calibration is finished. Please notice to keep the instrument still when pressing "ZERO" button.

Application ▶▶

More widely application is in wood processing industry (especially in furniture manufacturing industry) for wood angle accurate cutting; auto repair industry for tiring assembling angle accurate controlling; in machining industry for machine tool working angle accurate positioning, and large vehicle arm rotation angle etc

Packing ▶▶

Product size: 57*57*30.5mm
Product packing: color box/93*82*40mm

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