

## **INCLINOMETER - clinometer**

**Cat: LB1950-001 (simple style, in plastic housing)**

### **DESCRIPTION:**

This small simple instrument is used to quickly measure the angle of inclination by an observer on the ground to a point that is either higher or lower than the observer.

Angles up to 50° either side of zero (zero = viewing horizontally) can be measured.

The instrument consists of a small plastic housing carrying a special pivoting scale. One end of the housing has an eye-piece and the other end has a very small hole. The observer views through the eye-piece and **the small hole is at the end furthest from the eye**. During aiming, the small hole is positioned exactly over the target reference point.

Whilst viewing, the housing is held as shown in the picture below (vertical) and the button is pressed so that the swinging scale is released. It swings freely inside the housing to hang exactly vertical. The button is then gently released so that the scale is clamped in that exact angular position. The new angular position of the scale can be read through a window on the side of the instrument and this is the measurement in degrees of the viewing angle from the horizontal viewing line.

### **LB1950-001**



**Physical size:**

**Weight: kg**

Designed and manufactured in Australia by Industrial Equipment and Control Pty Ltd

Distributed by

**Scientrific Pty Ltd**

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**TO MEASURE THE ANGLE OF INCLINATION TO THE TOP OF A BUILDING:**

Select the exact point on a tall building which is your planned reference point. Hold the instrument in the right hand with the spring clamping button pointing to the left side. View with one eye through the eye-piece and seek around until the small central hole is positioned over the exact place on the building that you have selected. Keeping both eyes open while seeking for the exact point can sometimes assist in finding the target more quickly.

Whilst aiming at the building, use the left hand to press in the spring button to unclamp the scale. Wait several seconds for the scale to swing vertically and stabilise. **Be very sure that the swinging scale is not rubbing inside the housing while it is unclamped. Move the housing a little either side of vertical to be sure the scale is hanging freely.**

While still aiming carefully at your reference point, gently release the button to re-clamp the swinging scale.

Remove the instrument from your eye and look through the small side window to read the angle on the scale in degrees. This reading is the angle of inclination, either up or down, from the horizontal direction to the target.

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