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AL TRABAJAR CON HERRAMIENTAS EVITE
PELIGROS UTILIZANDO GAFAS PROTECTORAS.



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STANLEY

77-007

IntelliMeasure™

Ultrasonic Estimator with
Laser Pointer

INSTRUCTION MANUAL



T4992

Stanley IntelliMeasure™ 77-007

Ultrasonic Estimator with Laser Pointer
Estimateur ultrasonique à point laser
Estimador ultrasónico con apuntador
de láser

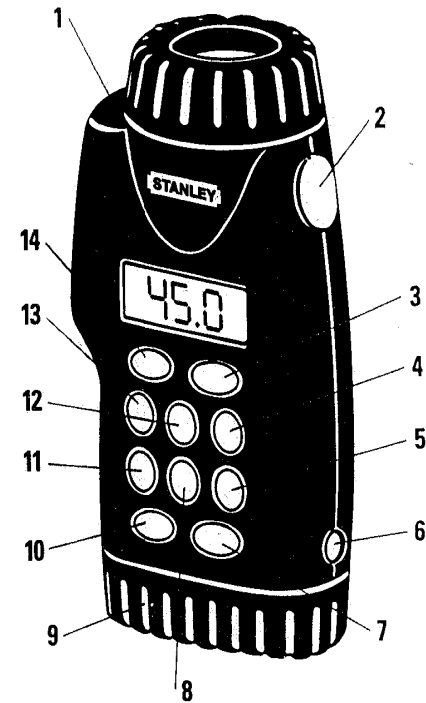


Illustration / Ilustración 1

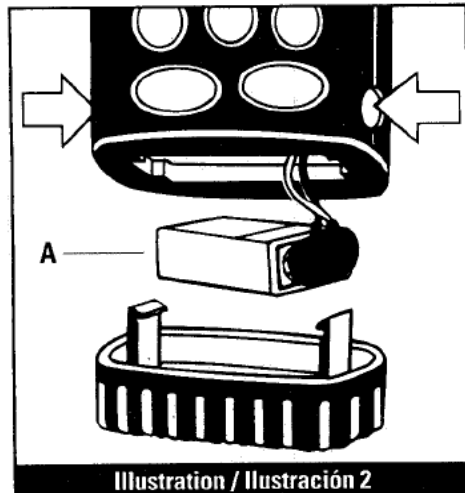


Illustration / Ilustración 2

A. 9V battery
Pile de 9 V
Batería de 9 voltios

B. Top of case
Haut du boîtier
Parte superior de la caja

C. English units
Unités anglo-saxonnes
Unidades Inglesas

D. Metric units
Unités métriques
Unidades métricas

E. Graphic indicators
Indicateurs graphiques
Indicadores gráficos

F. Low battery
Niveau bas de la pile
Batería baja

G. Bottom of case
Bas du boîtier
Parte inferior de la caja

H. Length, width, height
Longueur, largeur et hauteur
Longitud, Ancho, Altura

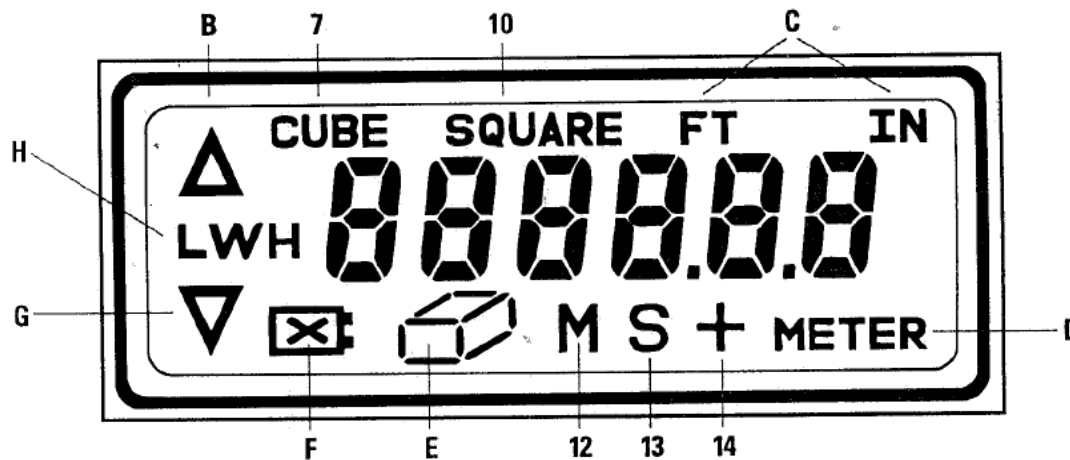


Illustration / Ilustración 3

1. Laser aperture
Ouverture du laser
Abertura del láser

2. ON
MARCHE
PRENDIDO

3. "CLR": Clears display
« CLR » : Effacer l'affichage
"CLR": Borra la pantalla

4. MODE: Converts reading from Metric to English, top/bottom measurement

MODE : Convertit les mesures de métriques à anglo-saxonnes, et change le point d'origine de la mesure, au haut ou au bas du boîtier

MODALIDAD : Convierte la lectura de métrico a inglesa, medida en la parte superior/inferior

5. HEIGHT
HAUTEUR
ALTURA

6. Battery cover releases (2)
(2) Boutons latéraux du couvercle de la pile
(2) Puntos para soltar la tapa de la batería

7. VOLUME
VOLUME
VOLUMEN

8. WIDTH
LARGEUR
ANCHO

9. Battery cover
Couvercle de la batterie
Tapa de la batería

10. AREA
SURFACE
ÁREA

11. LENGTH
LONGUEUR
LONGITUD

12. RECALL
RAPPEL
LLAMADO DE MEMORIA

13. STORE
ENREGISTRER
ALMACENAJE EN MEMORIA

14. "+": Auto add
« + » : Addition automatique
"+": Suma automática

The STANLEY IntelliMeasure™ ultrasonic estimator with laser pointer combines a fast, convenient distance measuring tool with a laser pointer which shows exactly where the measurement is being taken. This tool allows contractors, realtors, homeowners and appraisers to make fast and easy estimates of distances, areas and volumes in rooms at work or home. Multiple measurements may be automatically added to allow for overall measurements of greater than 50 feet. Automatic conversion between imperial and metric units of measurement. Area and volume are calculated with the push of a single button.

The IntelliMeasure™ ultrasonic estimator is intended for fast, convenient measurements with a high degree of accuracy. For precision measurements other measuring instruments should be used.

OPERATING INSTRUCTIONS

Battery Installation:

The IntelliMeasure™ uses a 9 volt battery which is inserted in the bottom of the unit. To install the battery remove the base (illustration 2) by pressing the side buttons and pulling out the bottom of the case. Snap the battery connector onto the 9 volt battery and reassemble the bottom to the case making sure it snaps into place. (illustration 2) When the battery needs replacement the Low Battery indicator (illustration 3) will appear in the LCD display.

OPERATING CONTROLS AND DISPLAY:

Taking Measurements:

1. For consistent readings hold IntelliMeasure™ **perpendicular** to and pointed toward the surface being measured and press /release "ON" button. Estimator will display the units of measure (Metric / Imperial) and where it is measuring from (top or bottom of the case) showing what was last used. The display will show ----- while measuring the distance and sound four beeps after a good reading is taken. The laser pointer will show where the estimator is pointed and is on only while a reading is being taken.

Caution: Do not stare into Laser beam. Hold estimator with beam above or below eye level.

2. To change the units of measurement or case top / bottom measurement location press the "**Mode**" button. With each press the display will cycle through the display units of measurement and top / bottom measurement location. The reading will be converted with each units of measurement change and add / subtract the case length to show the correct distance.
3. If after six attempts the estimator cannot determine the correct distance i.e. greater than 50 feet, it will display "**ERROR**" and shut off after several seconds.
4. When repeating the reading make certain that the estimator is perpendicular to the surface,

that the distance is within its measuring range and that there are no obstructions in the way like desks, chairs, half walls or step ladders to reflect the sound waves.

5. Caution: Some types of surfaces such as curtains, padded walls, furniture or carpeting may absorb the ultra sonic sound waves instead of reflecting them making readings difficult to take. These surfaces or irregular surfaces can also cause variations in readings. Try taking readings from different angles or positions to achieve consistent measurements.
6. The displayed reading will be shown for 30 seconds before the estimator shuts off or it may be entered into the Length (L), Width (W) or Height (H) location in preparation for determining Area or Volume.

Auto Addition of Measurements:

If the distance to be measured is greater than 50 feet or a series of measurements need to be added together the Auto Add feature can be used.

1. If the reading currently in the display is not to be included in the added measurements press the **CLR** button to zero the display.
2. Press the "+" button; the (+) indicator will appear the display.
3. Take the reading as described in the **Taking Measurements** Section.
4. The new measurement will be displayed along with the + flashing for 3 seconds; then the new measurement will be added to the previous measurement and the sum will be displayed.

5. New measurements will continue to be added until the "+" button is pressed again ending the Auto Add function.
6. If the **CLR** button is pressed during the 3 second period, when the "+" indicator is flashing, the measurement will be cleared and not added to the total.

Area and Volume Functions:

The area or volume can be quickly determined by the following steps. Area and volume are only calculated from current values of length, width and height and are displayed in meters or feet, not feet-inches.

1. Measure the room length as described in the **Taking Measurements** Section.
2. Press the "**L**" button to place it in the length location. The "**L**" indicator and line segment will appear.
3. Measure the room width.
4. Press the "**W**" button. The "**W**" indicator and line segment will appear.
5. If only area is desired press the "**Area**" button; the Area will be calculated and displayed along with the "**SQUARE**", "**LW**" and graphic square indicators.
6. For volume, take the height of the room and press the "**H**" button. The "**H**" indicator and line segment will appear.
7. For volume, press the "**Volume**" button; the volume will be calculated and displayed along with the "**CUBE**", "**LWH**" and graphic box indicators.

8. The length, width or height measurements maybe taken and entered in any order.

Store and Recall Functions:

The current displayed value of length, width or height can be stored in memory for later review by use of the "**STORE**" and "**RECALL**" buttons.

1. Enter the displayed measurement into "**L**", "**W**" or "**H**".
2. Press "**STORE**". The "**S**" indicator will appear. Then press "**L**", "**W**" or "**H**". The "**S**" indicator will then disappear. The reading value will be placed into the desired memory for future recall.
3. To recall a reading stored in memory press "**RECALL**" then "**L**", "**W**" or "**H**". The "**M**" indicator will show in the display along with the recalled reading which replaces the current reading.
4. Calculated values of area and volume can be stored by pressing "**STORE**", Then "**AREA**" or "**VOLUME**" and recalled in the same manner as length, width or height.
5. The stored value in any memory is replaced by the next reading that is stored.
6. Readings that are placed into memory are retained even after the Auto Off feature has shut the estimator off as long as the battery has not been removed.
7. Pressing the "**RECALL**" button after the estimator has shut off via the Auto Off feature will turn the estimator on and display the last reading that was in the display.

SPECIFICATIONS

- Battery: 9 Volt, alkaline recommended
- Low battery indicator
- Beeps to indicate button pressed
- Four beeps indicates good reading
- Auto shutoff: 30 seconds after last keystroke
- Auto addition of multiple measurements
- Ambient temperature compensated
- Accuracy: $\pm 0.5\%$ of reading
- Range: 2 to 50 feet
- Measurement point: user selected top or bottom of case
- Calculates and stores area and volume
- Memory locations for length, height, width, area and volume
- Units of measure: Meters, Feet-Inch and Feet to tenth of foot
- Class II laser pointer: <1mw output power, on while taking measurements
- Complies with FDA 21 CFR 1010 and IEC 825-1
- Dimensions (approx.) 5-19/32 inch (H) X 3-5/32 inch (W) X 2-9/64 inch (D)
- Operating temperature range 10° C to 45° C

