

Accutape III

Ultrasonic Distance Estimator



User's Guide

Model: MS-38

INTRODUCTION

The ACCUTAPE III™ measure straight-line distances. An advanced ultrasonic measuring system, it transmits harmless sound waves (beyond the range of human hearing) that bounce off the first major obstacle they hit. The ACCUTAPE III™ measures the time it takes the sound waves to bounce back to the unit and converts it to feet and inches or meters and centimeters. The calculated distance appears in the unit's display window.

MAKING A MEASUREMENT

PRECAUTIONS

- Choose your measuring point so the sensor has a clear and perpendicular path to the opposite wall. Otherwise, the sound waves may bounce off an object and give you a false reading. To avoid this possibility, measure from the wall which has large objects (such as a couch) against it.
- Do not use where absolute measurements are critical.

NOTE

Since the sound waves spread out after being transmitted from the ACCUTAPE III™, they are more likely to hit an object in a large room than in a small one. Always check for a clear path between the ACCUTAPE III™ and the "target" wall. If in doubt, move slightly to one side and repeat the measurement, or check by moving to the opposite wall and measuring in reverse.

- Soft materials, such as drapes or curtains, can absorb sound waves and disturb your measurement. Open curtains before taking a measurement towards a window. Keep window closed.
- Loud noises can interfere with the sound waves and may produce an inaccurate measurement. The area should be free of loud noises.
- When taking measurements where no solid wall exists (as in a building still under construction), tack a sheet carboard or similar hard material to the "target" wall.
- The ACCUTAPE III™ should be used at room temperature. Allow about 15 minutes for the unit to stabilize after it has been exposed to a temperature greatly different from that in the rooms to be measured.
- The MS-38 distance estimator is a fine electronic instrument and temperature changes might affect unit accuracy. This may happen when unit is under direct sun light or held in hand for some time. If accuracy is affected, place unit in the shaded area where unit will be used for about 10-15min to cool down.

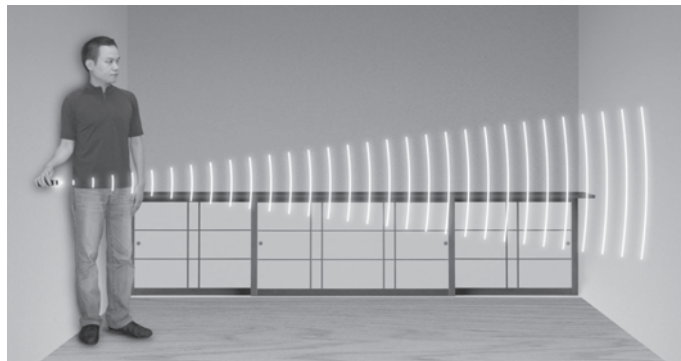
INSTALL BATTERIES

1. Unscrew the screw on the battery door
2. Install 2 pcs new CR2032 type Lithium batteries
3. Put the battery door back and screw it tight



USING THE ACCUTAPE III™ MEASURING TOOL

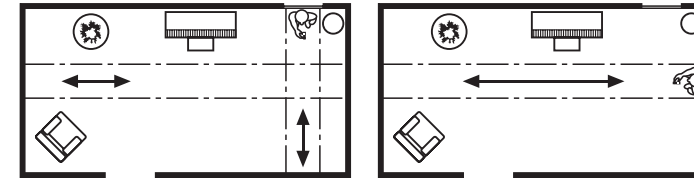
1. Hold the unit against the wall, about halfway between the floor and ceiling. Be sure the unit is flat against the wall, so it is parallel to the opposite wall. Change units of measurement as needed (described in par2 below). Be sure your head or hands do not block the ACCUTAPE III™ ultra-sonic sensor screen.
2. Change Units of Measurement:
 - 2.1 While Distance Meter is turned OFF press and hold "ON/Measure" button for 5 seconds to enter measurement units change mode. The display will show blinking measurement units icon (factory default is inch).
 - 2.2 Press "ON/Measure" button again to change units from inch to meter.
 - 2.3 Wait until distance meter is shut off (in about 10 seconds). Measurement units are set up.
 - 2.4 Repeat 2.1-2.3 if needed to changed measurement units again.



3. To make your measurement, depress the "ON" button momentarily and then release it.
4. The unit will beep as you press the button and then shortly afterward a double beep will indicate the measurement is completed. The display remains visible for approximately 4 seconds.
5. To take another measurement, repeat the above steps. New measurements can be taken before the display of the previous measurement disappears; you do not have to wait until the display window is blank.

HELPFUL HINTS

- The unit's range is from 20 inches to 50 feet or 0.5M to 15M. Under 0.5M an inaccurate measurement may occur, about 15M the letter E (error) may be displayed.
- To measure a room larger than 50 feet, determine the middle point of the room and take a reading two the opposite walls and add the two distances together.
- When taking real estate measurements, accuracy is important. To measure wall-to-wall in rooms with built-in cabinets, bookshelves, etc., use the ACCUTAPE III™ to measure the room from the built-in item to the opposite wall. Then use a tape measure to measure the depth of the item, and add the two figures together.
- If no reading is obtained, the "ON" button may still be depressed. Engage this button only momentarily, then release.



1. Determine the clearest paths to take measurements. Open curtains before taking a measurement towards a window. Keep window closed.
2. With unit held flat against the wall about one half the distance between floor and ceiling, momentarily depress "ON" button, then release it.

CARE

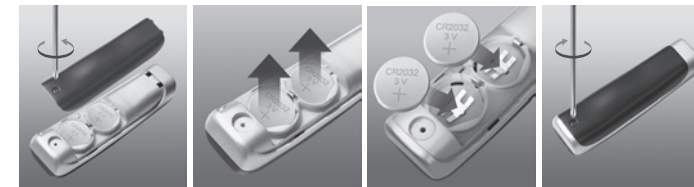
- Clean the unit by wiping it with a clean, damp cloth.
- No not submerge unit.
- Do not use abrasive or cleaning solvents.
- Do not drop the unit or expose it to shock.
- Do not expose the unit to excessive moisture or direct heat.

THE POWER SOURCE

The ACCUTAPE III™ has 2 Lithium coin cell (CR2032) batteries included which should give you over 3,000 readings before requiring replacement. When the batteries begin to run down, an "L" will appear on the display for about 3 seconds and a single beep will sound. This is your indication that the batteries would need to be replaced.

FOR BATTERY REPLACEMENT

1. Unscrew the screw on the battery door.
2. Remove the battery door.
3. Replace the old batteries with 2 pcs new CR2032 type Lithium batteries.
4. Put the battery door back and screw it tight.



WARRANTY AND SERVICE

Measurement Ltd., Inc warrants this distance estimator against defects in material or workmanship for a period of one (1) year from the date of purchase and agrees to replace it free of charge. This warranty does not cover damage resulting from misuse or abuse of the product. Should your distance estimator require service, you may send it back to Measurement Ltd., Inc for repair or replacement.

Our authorized service center address:
11751 Rock Landing Drive,
Suite H-7, Newport News,
VA 23606
Attn: Customer Service

Patent Pending

This device complies with Part15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.



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Measurement Ltd., Inc.
www.measurement-ltd.com
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