EMT0005 ELECTRONIC *MeasureTech™*
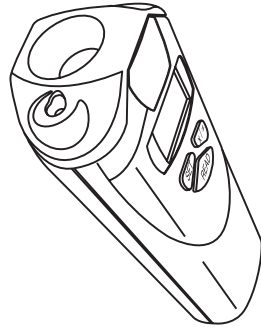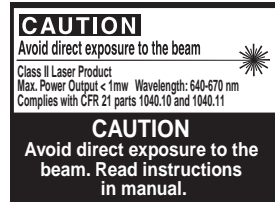

RYOBI®

RYOBI TECHNOLOGIES INC.
1428 Pearman Dairy Road
Anderson, SC 29625
www.ryobitools.com
1-800-525-2579

CAUTION
Avoid direct exposure to the beam
Class II Laser Product
Max. Power Output < 1mw Wavelength: 640-670 nm
Complies with CFR 21 parts 1040.10 and 1040.11

CAUTION
Avoid direct exposure to the beam. Read instructions in manual.

WARRANTY

This product is a consumable item. Therefore it is warranted against defective parts and labor only and not misuse or deterioration of product through normal wear and tear for a period of 2 years from date of purchase.

983000-284
6-03

EMT0005 ELECTRONIC *MeasureTech™*

The Ryobi Electronic *MeasureTech™* is intended for a fast, convenient distance measure, or with a laser pointer which shows exactly the location where the measurement will be taken. It features a sleek, high-impact case.

For damage caused by usage other than intended, the user is responsible.

VERIFYING IF THE UNIT WORKS
• After battery is installed, press the **"READ"** button. If numbers appear on the LCD display, then the unit is working properly.
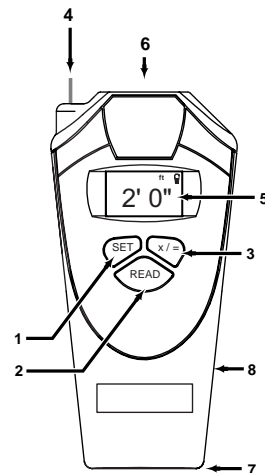
PARTS IDENTIFICATION
KEYBOARD
  1. SET - Select measurement reference
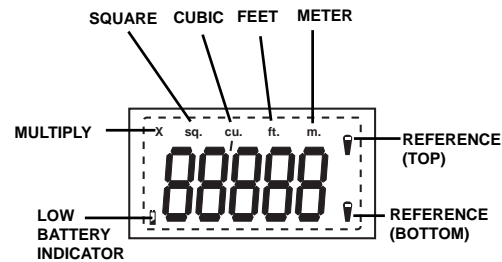 2. READ - Read distance
  3. X / = - Multiply / equal

OTHERS
  4. Laser aperture
  5. Display
  6. Measurement reference - top
  7. Measurement reference - bottom
  8. Battery compartment (back)

USE AS INTENDED:
The *MeasureTech™* is intended for a fast, convenient distance measurement with a laser pointer which shows exactly where the measurement is being taken.

DISPLAY

SQUARE CUBIC FEET METER
MULTIPLY
X sq. cu. ft. m.
REFERENCE (TOP)
LOW BATTERY INDICATOR
REFERENCE (BOTTOM)

FEATURES
• Instant measurement
• Dynamic measurement capability of 50 feet (15 meters)
• Selective measurement reference: top or bottom of the case
• Computation of area and volume
• 5 digit LCD for easy read screen
• Built in laser pointer
• Conversion ft-in to metric

MEASUREMENT REFERENCE
• Press **"SET"** button to select measurement base: top or bottom of case.
• To change from feet to meters, or vice versa, press the "set" and "X/=" button simultaneously.
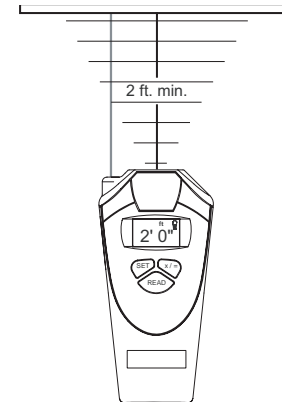
NOTE:
The *MeasureTech™* measurement unit is defaulted in ft-in.

MEASUREMENT PROCEDURES
• Select the measurement reference.
• Point the unit **perpendicular** to the target. The laser 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 unit with beam above or below eye level.
• Press the **"READ"** button to take the measurement.
• Hold the **"READ"** button for continuous measurement.

Finding square footage/meters and cubic footage meters
• After taking initial measurement, press the "X/=" key. Take the second measurement and again press the "X/=" key. LCD display will show "SQ.M". Take a third measurement and again press "X/=" key. LCD display will show "cu.ft". or "cu.m".

---

2 ft. min.

HINTS
• Any large obstacle found within ± 5° for the viewing angle of the unit might be regarded as the target.
• Large, flat, hard surfaces usually give more accurate results.
• To measure small, irregular or soft objects, place a piece of cardboard in front of the object.
• Change of measurement base does not affect old readings.
• The unit cannot measure through glass.

ERROR DISPLAY
The unit will give inaccurate readings if:
• The battery runs out of power
• The distance to be measured is less than 2' (0.6m) or
• There is another ultrasonic source in the vicinity.
• **"ERROR"** will be displayed if the reflected ultrasonic pulses are not strong enough. This may happen when:
  -The measuring distance is out of working range.
  -The target is not a good ultrasonic reflector (e.g. thick carpet, irregular wall paper, etc.)
  -The unit of the multiplication result is higher than cube.

INSTALLING THE BATTERY
• Slide back of unit off to replace battery.
• Snap 9-V battery into compartment, terminal side first, matching (+) and (-) terminals from battery to case.
• Replace the back by sliding into grooves. Alkaline battery life is approximately 7000 measurements.
• The battery should be replaced when battery indicator is on.

CAUTIONS
• Do not expose the unit to direct sunlight, high temperature, high humidity, excess dust, or mechanical shock.
• When the unit is not to be used for a long period, remove the battery to avoid damage from possible battery leakage.
• It is a household product.
• Not for repair, open only by authorized persons.

OPERATING ENVIRONMENT
• Temperature 32°F to 104°F (0° to 40°).
• Still Air
• Hard Surface

SPECIFICATIONS
• Class II Laser Module 650 mm.
• Measurement Range 2' to 50' (0.6 m to 15 m)
• Accuracy: ± 0.5% ± 1 Digit (*)
• Resolution: 1' (0.01 m)
• Aperture angle: Approx. ± 5 Degrees
• Calculation Range: Length - 999'11" (999.99 m)
  Area - 99999 Sq.ft (999.9 SQ M)
  Volume - 99999 Cb. ft (9999.9 CB M)
• Power Consumption: Approx. 0.4 W Average
• Display: 5 Digits Liquid Crystal Display
• Battery: 9 Volt
• Size: 4.84"X2.36"X1.54": (123 mm X 60 mm X 39 mm)
• Weight (Without Battery): Approx. 3.14 oz(88g)

(*)For measuring long distance from 40 ft to 50 ft (2m to 15m), the relative humidity should be 50% or above and target size should be at least 10 ft. by 10 ft (3m by 3m).

Situations	Possible Causes	Solutions
Inaccurate readings of distance	• Battery runs out of power • Measured distance is < 2' or > 50' **(< 0.6m or > 15m).** • Another ultrasonic source is nearby	• Replace new battery • Make sure measured distance is within range • Remove the ultrasonic source and try again.
LCD displays "Error"	• **Measured distance is < 2' or > 50' (< 0.6m or > 15m).** The target is not a good ultrasonic reflector. (e.g. thick carpet, irregular wallpaper, etc.). • **The unit points to the target obliquely.** • **Computation is out of the specified range.**	• Make sure measured distance is within range. • Place a piece of cardboard in front of target. • Make sure computation is within range.

⚠ **WARNING:** To avoid risk of eye injury, do not stare directly into beam. Never point the beam into anyone's eyes. Do not permit children to use this device. It is not a toy.