195′ Laser Distance Meter w/Angle Sensor

Model No. LDM195

Instruction Manual

Congratulations on your choice of this Laser Distance Meter. We suggest you read this instruction manual thoroughly before using the instrument and save this instruction manual for future use.

This is a Class II laser tool and is manufactured to comply with CRF 21, parts 1040.10 and 1040.11 as well as international safety rule IEC 285. The laser also complies with EMC Test according to EN61000-6-3; 2001+A11:2004, EN 6100-6-1:2011, EN 6100-4-2, EN 61000-4-3, EN 60825, FCC Test according to PART 15.

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1. Kit Contents

Description	Qty.
Laser Distance Meter	1
“AAA” Alkaline Batteries	2
Wrist Strap	1
Soft-Sided Pouch	1
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2. Features and Functions

- Seven (7) measurement modes: Length (Single or Continuous), Area, Volume, 2-Point Pythagoras, 1-Point Pythagoras, Digital Level and Stake-out
- Displays in English or metric units with decimals or fractions (English units only)
- ISO 16331-1 tested* to typical accuracy of ±1/16″ (0.0625″, or 1.5mm)
- High-speed microprocessor for quick, accurate calculations
- IP 54 protection – sealed from dust and rainwater

* This tool is tested in accordance with ISO 16331-1 “Laboratory procedures for testing surveying and construction instruments – Part 1: Performance of handheld laser distance meters.” This standard is used to calculate accuracy under varying ambient lighting conditions. For more detailed test results, see the Technical Specifications section of this operator’s manual.

3. Safety Instructions

Please read and understand all of the following instructions, prior to using this tool. Failure to do so, may void the warranty.

DANGER!

Class II Laser Product
Max. Power Output: ≤ 1mW
Wavelength: 640-660nm

THIS TOOL EMITS LASER RADIATION.
DO NOT STARE INTO BEAM.
AVOID DIRECT EYE EXPOSURE.

ATTENTION IMPORTANT

- Read all instructions prior to operating this laser tool. Do not remove any labels from tool.
- Do not stare directly at the laser beam.
- Do not project the laser beam directly into the eyes of others.
- Do not set up laser tool at eye level or operate the tool near a reflective surface as the laser beam could be projected into your eyes or into the eyes of others.
- Do not place the laser tool in a manner that may cause someone to unintentionally look into the laser beam. Serious eye injury may result.
- Do not operate the tool in explosive environments, i.e. in the presence of gases or flammable liquids.
- Keep the laser tool out of the reach of children and other untrained persons.
- Do not attempt to view the laser beam through optical tools such as telescopes as serious eye injury may result.
- Always turn the laser tool off when not in use or left unattended for a period of time.
- Remove the batteries when storing the tool for an extended time (more than 3 months) to avoid damage to the tool should the batteries deteriorate.
- Do not attempt to repair or disassemble the laser tool. If unqualified persons attempt to repair this tool, warranty will be void.
- Use only original Johnson® parts and accessories purchased from your Johnson® authorized dealer. Use of non-Johnson® parts and accessories will void warranty.

4. Location/Content of Warning Labels

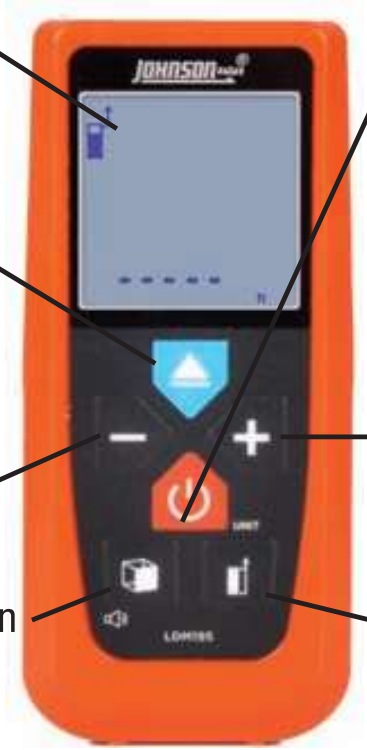
Error Code Label

The LDM may return an error code during use, as indicated by the display showing "ERR X," where "X" represents a number from 1 to 6.
The error codes are as follows:

1. **Laser Range** – The measurement distance is outside the range listed in the specifications.
2. **Weak Signal** – The reflected laser signal is too weak, either due to high ambient lighting at the target or poor target reflectivity.
3. **Display Range** – The measurement distance, area or volume exceeds the number of units the display is capable of showing.
4. **Low Battery** – The batteries need to be replaced.
5. **Temperature** – The tool is either above the maximum or below the minimum safe operating temperature range.
6. **Ambient Light** – The tool is being used in too bright of an environment to operate properly.

QR Code: Use a smartphone to scan the QR code to be taken directly to Johnson Level & Tool's Operator's Manual Page.

5. Location of Parts/Components



LCD Screen

Power Button
Press for:
• Power on
• Set units of measurement
Press and hold for:
• Power off

Measure Button
Press for:
• Power on
• Measure
Press and hold for:
• Continuous mode

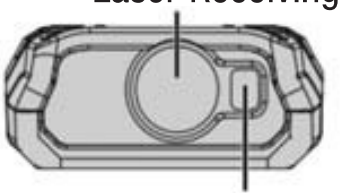
Addition Button

Subtraction Button

Reference Button
Press for:
• Adjust the measurement reference

Functions / Sound Button
Press for:
• Area measurement
• Volume measurement
• 2-Point Pythagoras measurement
• 1-Point Pythagoras measurement

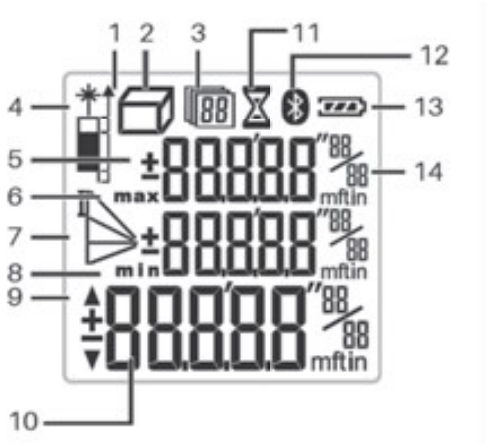
Press and hold for:
• Sound (High, Low, Off)



Laser Receiving Window

Laser Emitted Window

LCD Screen



Not all features found on the LCD screen are found in every Johnson Level & Tool Laser Distance Meter. See the notes below for further information.

1. Measurement Reference Position
2. Measuring Mode
3. Memory (recent measurements)*
4. Active Laser Indicator
5. Add and Subtract‡
6. Maximum Display
7. Indirect Measuring Mode (Pythagoras Measurements)‡
8. Minimum Display
9. Stake-out Direction Indicator†
10. Main Screen – Current Measurement
11. Countdown Timer*
12. Bluetooth® IndicatorΔ
13. Battery Status Indicator
14. Secondary Screens (prior 2 measurements)

Notes:

* Feature available in the LDM330 only.
† Feature available in the LDM195 and LDM330 only.
Δ Feature found in the LDM130 and LDM330 only.
‡ Feature found in the LDM130, LDM195 and LDM330 only.

6. Battery Installation

To install batteries in the Laser Distance Meter:

1. Remove the battery cover by lifting the cover straight up from the bottom of the Laser Distance Meter as shown by the arrow in the image to the right.
2. Insert 2 “AAA” batteries into the battery compartment according to the polarity illustrated inside.
3. Replace the battery cover.

Current Battery Status

To check the current battery life, press and hold both the − and + buttons simultaneously for one second. The battery icon will display for approximately 10 seconds.

When the batteries are low, the battery icon will automatically display.

 Battery has 100% power

 Battery has approximately 60% power

 Battery has approximately 25% power

 Battery has approximately 5% power, and new batteries are needed

Notes:

• Use only alkaline batteries.

• Remove the batteries when storing the instrument for an extended time (more than 3 months) to avoid damage to the tool should the batteries deteriorate.

7. Operating Instructions

IMPORTANT: It is the responsibility of the user to ensure proper maintenance of the Laser Distance Meter. Conduct periodic test measurements to ensure the instrument is measuring accurately and consistently. This is most important if the instrument has been exposed to extreme temperatures or moisture. Always confirm accuracy before and during important measurements. Keep the Laser Distance Meter optic lens clean and inspect for damage. The Laser Distance Meter is designed to withstand a drop from 3 feet (1 meter). If dropped from a higher distance, the tool's calibration may be affected and it should be tested for accuracy.

Power On/Off the Laser Distance Meter

Press either the  button or the  button to power on the instrument.

Press and hold the  button to power off the instrument.

Automatic Shutoff

Laser will turn off after remaining idle for 2 minutes. Press the  button to re-enable the laser.

Unit will turn off after remaining idle for 5 minutes.

Volume Control

The Laser Distance Meter has three volume settings: high, low and off. When the instrument is powered on, it will default to the most recently used volume setting.

To change the volume setting, press and hold the  button. The unit will cycle through the three settings (S1 = high, S-2 = low, Off = mute) until you release the button.

Measuring Modes

The Laser Distance Meter has 7 measuring modes. When the instrument is powered on, it will default to the Length measuring mode.

1. Length (Single or Continuous)
2. Square
3. Volume/Cube
4. 1-Point Pythagoras
5. 2-Point Pythagoras
6. Stake-out
7. Digital Level

To select a mode, press the  button. When there is no measuring mode icon shown near the top left of the LCD screen, the instrument is in the Length measuring mode. The selected measuring mode icon will display near the top left of the LCD screen for the Area, Volume, 1-Point Pythagoras and 2-Point Pythagoras measuring modes. When in the stake-out mode, the main display will have a flashing ± symbol and will read 0.00, with the hundredths decimal place flashing.

No icon will display when the tool is in Length mode

Length (single or continuous)

Area/Square

Volume/Cube

1-Point Pythagoras

2-Point Pythagoras

Stake-out

Digital Level

Units of Measure

The Laser Distance Meter has 7 units of measure.

1. Feet in decimal format (e.g., 6.637 ft)
2. Inches in decimal format (e.g., 79.646 in)
3. Feet and inches in 1/32″ (e.g., 6′7″ 21/32)
4. Inches in 1/32″ (e.g., 79″ 21/32)
5. Inches in 1/16″ (e.g., 79″ 11/16)
6. Inches in 1/8″ (e.g., 79″ 5/8)
7. Meters (e.g., 2.023 m)

To select a unit of measure before making a measurement, press the button. The word “Unit” will appear in the center of the LCD screen, and the unit of measure will display at the bottom right of the LCD screen. **OR** after taking a measurement, press the button repeatedly to scroll through the various units of measurement.

Note: The screen will only display feet and meters in a decimal format in Area or Volume modes.

Measurement Reference Position

Note: Setting the measurement reference correctly is critical to obtaining an accurate measurement, as it establishes the place where a reading of zero (0) is located. If the wrong reference position is selected, the measurement will be off by the length of the tool (4.14 inches/≈4 1/8″).

The Laser Distance Meter has two reference positions for measurement, which establish the place where a reading of zero (0) is located. When the instrument is first turned on, it will default to the most recently used position.

1. Front of the unit
2. Back of the unit

To select the desired position, press the button. The laser indicator icon at the top left of the LCD screen will display the selected position.

Front of Unit Zero
Reference Position

Back of Unit Zero
Reference Position

Length Measurement Mode – Single

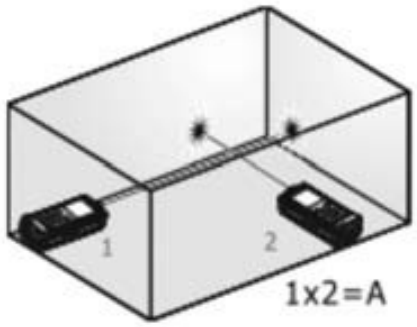
1. After turning on the instrument, it will default to the Length mode. If the mode has been changed and you wish to return to the Length mode, press the  button until the measuring mode icon on the LCD screen disappears.
2. After selecting the desired unit of measure and reference position, aim the Laser Distance Meter so that the laser dot is on the selected target.
3. Keep your position stable and press the  button.
4. The measurement will appear on the main display, and the laser will turn off.
5. Press the  button again to prepare the LDM to take your next Length measurement.

Length Measurement Mode – Continuous

1. After selecting the desired unit of measure and reference position, aim the Laser Distance Meter so that the laser dot is on the selected target.
2. Keep your position stable and press and hold the  button. The Laser Distance Meter will enter continuous length measurement mode.
3. Move the instrument as necessary to the proper distance.
4. Press the  button or  button to pause the measurement. The laser will turn off.
5. To exit the continuous mode and return to the single length measurement mode, press the  button while the tool is paused.

Area/Square Measurement Mode

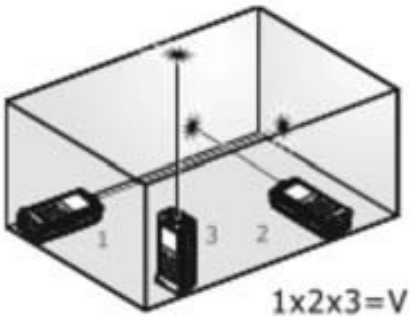
1. Press the button once until the Area/Square mode icon ( ) displays near the top left of the LCD screen.
2. After selecting the desired unit of measure and reference position, aim the Laser Distance Meter so that the laser dot is on the selected target to measure the length.



3. Keep your position stable and press the button. The length measurement will appear above the main display.
4. Aim the Laser Distance Meter so that the laser dot is on the selected target to measure the width.
5. Keep your position stable and press the button again. The length and width measurements will appear on the secondary screen, and the calculated area will appear on the main screen. The laser will turn off.
6. Press the button again to take your next Area measurement.

Volume/Cube Measurement Mode

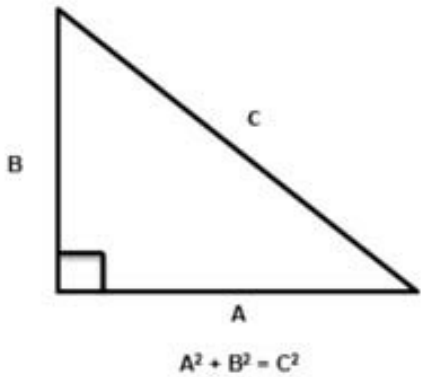
1. Press the button 2 times until the Area/Square mode icon ( ) displays near the top left of the LCD screen.
2. After selecting the desired unit of measure and reference position, aim the Laser Distance Meter so that the laser dot is on the selected target to measure the length.



3. Keep your position stable and press the button. The length measurement will appear above the main display.
4. Aim the Laser Distance Meter so that the laser dot is on the selected target to measure the height.
5. Keep your position stable and press the button again. The length and height measurements will appear above the main screen.
6. Aim the Laser Distance Meter so that the laser dot is on the selected target to measure the width.
7. Keep your position stable and press the button again. The height and width measurements will appear above the main screen, and the calculated volume will appear on the main screen. The laser will turn off.
8. Press the button again to take your next Volume measurement.

2-Point Pythagoras Measurement Mode

2-Point Pythagoras measurement mode refers to a measurement mode based off the Pythagorean Theorem (A2 + B2 = C2). If you know 2 lengths (but not the third), this formula allows you to calculate a missing dimension of a triangle. The Laser Distance Meter uses this theorem to indirectly measure lengths that are otherwise not directly measureable, enhancing the utility of the tool.



Typically, the Laser Distance Meter is used to measure a height shown above as “B” when there is no target at the top surface at which to aim the laser, such as a tall wall. The measurement can be taken by standing back at some distance “A” and taking measurements of “C” (on the side of the wall) and “A” (aimed level at the wall).

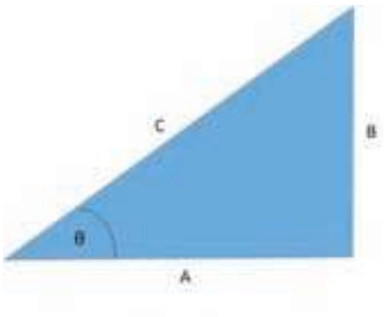
To use the 2-Point Pythagoras measurement mode:

1. Press the button 3 times until the 2-Point Pythagoras mode icon ( ) displays near the top left of the LCD screen.
2. After selecting the desired unit of measure and reference position, aim the Laser Distance Meter so that the laser dot is on the selected target to measure the length of the hypotenuse (represented by “C” in the figure above).
3. Keep your position stable and press the button. The hypotenuse length measurement will appear above the main display.

4. Aim the Laser Distance Meter so that the laser dot is on the selected target to measure the length of the base (represented by "A" in the figure above).
5. Keep your position stable and press the button again. The hypotenuse and base length measurements will appear above the main screen. The indirect height will appear on the main screen (represented by "B" in the figure above). The laser will turn off.
6. Press the button again to take your next 2-Point Pythagoras measurement.

1-Point Pythagoras Measurement Mode

This Laser Distance Meter is equipped with an angle sensor that can be used to both quickly check an angle (like a digital level) or to make more advanced 1-point Pythagoras calculations with only one measured length reference. Just like the 2-Point Pythagoras mode, the 1-Point Pythagoras mode uses mathematical relationships to calculate a distance that cannot otherwise be measured directly by measuring the angle of the tool and the length of a triangle hypotenuse.



$A = C \cdot \cos(\theta)$
$B = C \cdot \tan(\theta)$

1. Press the button 4 times until the 1-Point Pythagoras mode icon ( ) displays near the top left of the LCD screen and the current value for the angle is displayed as XX.X°.

2. After selecting the desired unit of measure and reference position, aim the Laser Distance Meter so that the laser dot is on the selected target to measure the length of the hypotenuse. Hold the Laser Distance Meter so that the bottom edge of the tool is roughly horizontal for the most accurate results.
3. Keep your position stable and press the button. The angle measured will appear above the main display.
4. A length result will be shown on the main screen, and the triangle in the Pythagoras Measurements indicator will flash one leg of the triangle. The measurement result shown corresponds to that length of the triangle you measured (height, width or hypotenuse). Press the + or − buttons to toggle through the different sides of the triangle.
5. Press the button to clear the display and take your next 1-Point Pythagoras measurement.

Stake-out Measurement Mode

The Stake-out mode is used when it is necessary to measure a repeating distance interval, such as when installing fence posting every 8 feet. **It is important to have the volume enabled when using the stake-out mode, as the tool will beep to guide you to the correct distance.**

To use the Stake-out mode:

1. Set your desired unit of measurement and measurement reference position, as described earlier in this manual.

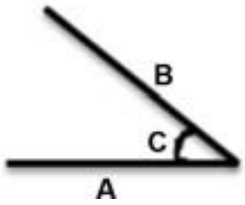
2. Press the button 5 times to enter the Stake-out mode. The main display will have a flashing ± symbol and will read 0.00, with the hundredths decimal place flashing. This number indicates your desired stake-out distance.
3. If you wish to increase or decrease the set stake-out distance by hundredths of a decimal point (the flashing number), tap the + button to increase the set stake-out distance or tap the − button to decrease the stake-out distance.
4. If you wish to increase or decrease the set stake-out distance by whole numbers, first press the button. The whole number on the main display will begin flashing. Press the + button to increase the set stake-out distance or press the − button to decrease the stake-out distance.
5. Aim the Laser Distance Meter so that the laser dot is on the selected target.
6. While keeping your position stable, press and hold the button.
7. The Laser Distance Meter will begin beeping steadily, and 3 numbers will appear on the LCD screen.

   - The top number indicates the set stake-out distance that you have set.
   - The middle number indicates the number of stake-out points between the unit and the selected target.
   - The bottom number on the main display indicates the distance between the unit and the selected target.
8. A + or – symbol will flash on the main display to guide you forward or backward, respectively, to the first stake-out point. As you approach the stake-out point, the middle number on the LCD

screen will continually update until it reaches a whole number (the stake-out point). The unit will beep at regular intervals until you reach the first stake-out point, at which time it will emit a long beep.

9. Continue following the main display as described in steps 7 and 8 above until you have measured all of your stake-out points.

Digital Level Measurement Mode



The Digital Level measurement mode provides an angle measurement.

This laser distance meter can be used as a digital level to measure a vertical angle, shown above as "C." There are many benefits to using this mode. Over short distances, it can be used for spot checking level of floors, countertops, etc. Over long distances, it can be used to check the angle of rafters or the relative height of two walls, etc. by using the laser beam as a reference.

To use the Digital Level measurement mode:

1. After selecting the desired reference position, tap the button 6 times until the Digital Level mode icon ( ) displays at the left of the LCD screen.
2. The angle will show in the main display and will update continuously as you move the Laser Distance Meter.

Measurement Addition and Subtraction

To add consecutive measurements, complete the following steps:

1. Complete your first measurement
2. Press the + button. The first measurement will appear above the main display.
3. Complete your second measurement. The second measurement will appear above the main display, and the sum of the two measurements will appear in the main display.
4. Repeat step 3 above as necessary to add further measurements.

To subtract consecutive measurements, complete the following steps:

1. Complete your first measurement
2. Press the − button. The first measurement will appear above the main display.
3. Complete your second measurement. The second measurement will appear above the main display, and the difference of the two measurements will appear in the main display.
4. Repeat step 3 above as necessary to subtract further measurements.

Calibrating the Angle Sensor

This Laser Distance Meter is equipped with highly accurate digital angle sensors for using the 1-Point Pythagoras measurement mode. This sensor should be calibrated regularly for the most accurate results possible.

To calibrate the angle sensor:

1. Find a fairly level horizontal surface such as a countertop, desk, wood floor, etc. The surface does not need to be perfectly level but should be within approximately 2° of level.
2. With the Laser Distance Meter powered off, hold down both the button and the button simultaneously.
3. Release the button.
4. When "CAL0" appears on the screen, release the button.
5. With "CAL0" on the screen, position the Laser Distance Meter upright on the surface so that the laser beam is pointing towards the sky and the screen is facing you.
6. Press the button and then release the Laser Distance Measure so that it is balancing vertically in an upright position. On the screen, "CAL0" will change to "CAL 1", followed by "OK."
7. Rotate the Laser Distance Meter 180 degrees so it is upright with the laser beam pointing towards the sky and the screen is facing away from you.
8. Press the button. "CAL 2" will appear on the screen followed by "OK."
9. Lay the Laser Distance Meter down so that the laser beam is facing away from you and the screen is facing the sky.

10. Press the button. “CAL 3” will appear on the screen followed by “OK.”
11. Rotate the Laser Distance Meter 180 degrees so the laser beam is pointing towards you and the screen is facing the sky.
12. Press the button. “CAL 4” will appear on the screen followed by “OK.”
13. The Laser Distance Meter will power down, and calibration of the angle sensor will be complete.

Cal0:
Stand upright facing you.

Cal2:
Lay down flat, LCD away from you.

Cal1:
Rotate 180° to face away from you.

Cal3:
Rotate 180°, LCD towards you.

8. Tips from the Pros

- Take more than one measurement in situations where accuracy is critical.
- Take 3-4 measurements from the same position to compare the consistency of each reading.
- To accurately measure objects lacking an inside corner from the rear of the instrument, use a scrap piece of dry-wall or other flat material to extend the corner. Butt the Laser Distance Meter up to the material (as shown).

- If error message “ERR 2” appears, place a white sheet of paper or reflective tape over the targeted measuring surface to improve the return signal.
- Be aware that when outdoors, the working range of the tool decreases significantly due to ambient light. The “unfavorable conditions” accuracy and distance limits shown in the specifications section quantify the performance you should expect from your laser distance meter in bright sunlight conditions.
- To make the laser beam more visible, aim it down in front of you and then follow it with your eyes as you move it towards the desired target.
- When making Pythagoras measurements, make sure that you hold the tool as flat as possible during your second measurement for the most accurate measurements. The beam should hit perpendicular to the object you are measuring.

- Calibrate the angle sensor every day that you plan to take 1-point Pythagoras measurements or on days when the temperature varies considerably.
- Use 2-point Pythagoras measurements when possible; they are generally more accurate than 1-point Pythagoras calculations.
- Use the corner hook and corner extension to simplify measurements.
- When working outside, a tripod will help stabilize the Laser Distance Meter for greater accuracy, particularly when longer measurements are needed.
- Use the self-timer to reduce the vibrations caused by pressing the  button, especially when longer measurements are needed.

9. Care and Handling

- This Laser Distance Meter unit is a precision tool that must be handled with care.
- Avoid exposing unit to shock vibrations and extreme temperatures.
- Remove the batteries when storing the unit for an extended time (more than 3 months) to avoid damage to the unit should the batteries deteriorate.
- Avoid getting the unit wet.
- Keep the laser unit dry and clean, especially the laser output window. Remove any moisture or dirt with a soft, dry cloth.
- Do not use harsh chemicals, strong detergents or cleaning solvents to clean the unit.

10. Troubleshooting Guide

This section is designed to help you diagnose and troubleshoot common problems that prevent the Laser Distance Meter from working properly.

If the Laser Distance Meter returns an ERR code (display shows ERR plus a number from 1 to 6), please *refer to Section 4* of this manual for possible resolutions. If your Laser Distance Meter fails to operate in any other way, please refer to the following troubleshooting guide for some suggestions on how to diagnose the problem.

Symptom	Possible Cause	Solution
Will not turn on	Batteries missing or depleted	Change the batteries
	Polarity reversed	Check battery polarity
Turns off after a short time	Batteries depleted	Change the batteries
Flashing or beeping	Laser is beyond leveling range	Place on surface within 4° of level
	Laser is out of calibration	Perform calibration check; calibrate laser if needed

11. Technical Specifications

Laser Wavelength	650 nm
Laser Classification	II
Maximum Power Output	≤1mW
Typical Accuracy*	±1/16″ over the full working range
Accuracy at Unfavorable Conditions**	±3/16″ over the full working range
Angle Sensor Accuracy	0°, 90° – 0.2°; all others – 0.5°
Typical Measuring Range*	2″ - 195′
Typical Interior Range*	2″ - 195′
Range at Unfavorable Conditions**	2″ - 90′
Angle Sensor	Yes
Bluetooth	No
Operating Modes	Length (Single or Continuous), Area, Volume, 2-Point Pythagoras, 1-Point Pythagoras, Digital Level, Stakeout
Units	ft, in, m, 1/8″, 1/16″, 1/32″
Power Supply	2 “AAA” alkaline batteries (included)
Battery Life	Minimum 10 hours/10,000 measurements

Operating Temperature Range	23°F - 104°F
Storage Temperature Range	-4°F - 160°F
Dimensions	4.1″x1.9″x0.8″
Weight	3 oz. including batteries; 2.25 oz. excluding batteries
IP Rating	IP 54

*Tested per ISO 16331-1.
**Per ISO16331-1, unfavorable conditions are designed to simulate bright sunlight and give an approximate indication of the working range of the tool outdoors on a bright, sunny day. Overcast or darker days will offer a longer working range.

12. Product Warranty

Johnson Level & Tool offers a two year limited warranty on each of its products. You can obtain a copy of the limited warranty for a Johnson Level & Tool product by contacting Johnson Level & Tool's Customer Service Department, as provided below, or by visiting our web site at www.johnsonlevel.com. The limited warranty for each product contains various limitations and exclusions.

Do not return this product to the store/retailer or place of purchase. Non-warranty repairs and course calibration must be done by an authorized Johnson® service center or Johnson Level & Tool's limited warranty, if applicable, will be void and there will be NO WARRANTY. Contact one of our service centers for all non-warranty repairs. A list of service centers can be found on our web site at www.johnsonlevel.com or by calling our Customer Service Department. Contact our Customer Service Department for Return Material Authorization (RMA) for warranty repairs (manufacturing defects only). Proof of purchase is required.

NOTE: The user is responsible for the proper use and care of the product. It is the responsibility of the user to verify the calibration of the instrument before each use.

For further assistance, or if you experience problems with this product that are not addressed in this instruction manual, please contact our Customer Service Dept.

In the U.S., contact Johnson Level & Tool's Customer Service Department at 888-9-LEVELS.

In Canada, contact Johnson Level & Tool's Customer Service Department at 800-346-6682.

13. Warranty Registration

Please register within 30 days of purchase. Registering ensures we have your information on file for warranty service even if you lose your receipt, and lets us contact you if there is ever a product recall. We will never sell your information and only send you marketing information if you opt-in.

To register, go to www.johnsonlevel.com/register.

14. Accessories

Johnson® accessories are available for purchase through authorized Johnson® dealers. Use of non-Johnson® accessories will void any applicable limited warranty and there will be NO WARRANTY. If you need any assistance in locating any accessories, please contact our Customer Service Department.

In the U.S., contact Johnson Level & Tool's Customer Service Department at 888-9-LEVELS.

In Canada, contact Johnson Level & Tool's Customer Service Department at 800-346-6682.