

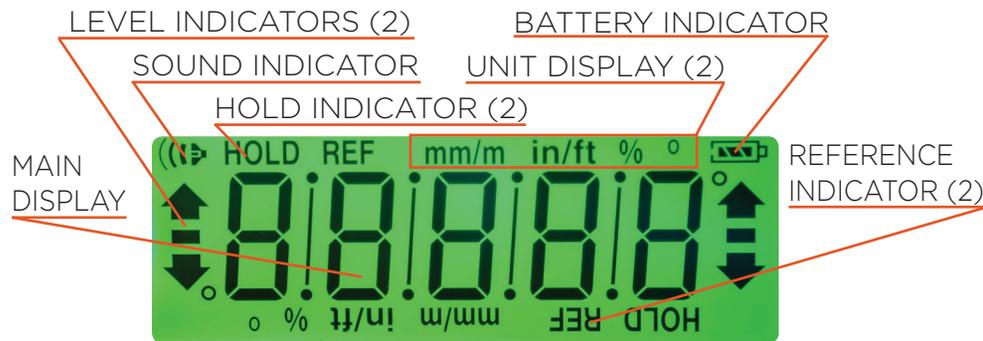
Thank you for purchasing this Johnson digital level! This level helps you accurately determine plumb, level or any angle in between - perfect for building ramps, setting drainage pitches and more!



## This digital level features:

- Accuracy of 0.10° (at 0°/90°)
- Accuracy of 0.20° for all other angles
- Reads in units of in/ft, mm/m, degrees and percent
- Angled backlit display for easy reading
- IP54 dust and water resistance
- Hold and reference modes

## LCD SCREEN & BUTTON OVERVIEW



- ON/OFF** Powers on/off the level
- SOUND** Enables/disables sound
- REF** Sets the temporary zero reference
- MODE** Changes the displayed unit or auto shutoff timer
- LIGHT** Enables/disables the backlight
- HOLD** Freezes the current screen reading
- CAL** Initiates calibration mode

## INSTALLING THE BATTERIES

1. Always use fresh batteries (2xAAA).
2. Use a #1 Philips screwdriver to remove the battery cover.
3. Insert the battery according to the polarity indicated on the level and in the diagram below.
4. Replace the cover - do not over-tighten the screw.



## GETTING STARTED

1. Insert fresh batteries - see "INSTALLING THE BATTERIES".
2. For best results, calibrate your level prior to each use. See "CALIBRATION PROCEDURE" for details.
3. Power on the digital level by pressing **ON/OFF**.
4. Enable or disable sound by pressing **SOUND**.
5. Set your operating units by pressing **MODE**.
6. Enable the backlight by pressing **LIGHT**. The backlight will automatically turn off after 30 seconds of inactivity. Press any button or move the level to re-enable the backlight.
7. Set the desired auto shutoff timer by pressing and holding **MODE**. The LCD will indicate "5" for 5 minutes or "2H" for 2 hours.
8. Set a temporary zero reference by pressing **REF**. See "SETTING A ZERO REFERENCE". To exit reference mode, press **REF** again.
9. To hold a measurement, press **HOLD**. To return to normal operation, press **HOLD** again.
10. During operation, the level indicators will show which direction the digital level must be tilted to achieve a reading of zero:



11. The audio alert will increase in speed as you approach closer to zero, and turn into a solid tone when you have achieved zero.
12. To power off the level, press **ON/OFF**.



## SETTING A ZERO REFERENCE

Reference mode temporarily sets the digital level's current reading to zero without changing the calibration of the digital level.

Reference mode is ideal to speed up your work in a variety of scenarios:

1. When taking repeat measurements, such as checking multiple ramps for ADA compliance, setting a consistent drainage slope, or adjusting concrete formwork at multiple points, reference mode can be used to make the desired target “zero”. Then, a reading of “zero” in reference mode means you have achieved your desired slope.
2. When trying to find the difference between two slopes, reference mode can eliminate the mathematics and simplify the task. Set the level on the first slope, enable reference mode, and read your second slope. The displayed value is the difference between the angles.
3. When trying to find a relative angle on an unlevel surface, such as setting a blade angle on a saw that is setting on non-level ground, reference mode can compensate for the angle of the ground. Using reference mode, you can set the blade angle directly without the need to compensate for the non-level ground.

To enter reference mode, press **REF**. The digital level will set the current measurement to “0.0” or “0 in/ft”, and all measured angles will be relative to this setpoint.

To exit reference mode and return to normal operation, press **REF**.

## TROUBLESHOOTING: “Erro” MESSAGE

If this digital level is tilted past approximately 30° forward or backward (in the non-operational direction), “Erro” will be displayed on the screen. To return to normal operation, bring the level back to within 30° of its standard operating position.

## CALIBRATION PROCEDURE

Calibration is quick and easy, and is the best way to ensure your level is reading consistently every time you use it. We recommend calibrating at the start of each critical job, or when the level is subjected to drastic changes in temperature (such as going from a cold car to a warm jobsite).

To calibrate your digital level:

1. Place the level upright on a fairly level surface, such as a countertop, floor or table, with the LCD facing you. The surface need not be perfectly level - the digital level calibration procedure will compensate for small errors in your work surface.
2. With the level powered ON, press and hold **CAL** for five seconds.
3. The LCD will display “CAL1” for five seconds while it stores the first calibration reference point into memory.
4. The LCD will display “CAL2” when the first reference point is stored. Rotate the level 180° so that the LCD continues to face towards you, but the digital level is now upside-down.
5. The level will detect its position and automatically store the second calibration point.
6. Your level is now calibrated.



CALIBRATION POSITION 1



CALIBRATION POSITION 2

