

# Magnetic Digital Level User Guide



## Features

- Wide screen LCD with LED backlight
- 360° readout display – flips in upside down position
- Hold function
- Mode function – degree, percentage, pitch in/ft and mm/m
- Memory storage and recall function – 9 measurements
- Recalibration function
- Reference angle ('False Zero') for transferring angle measurements
- Buzzer at 0°, 45°, 90° with mute function
- Digital accuracy: 0.1° at level and plumb, 0.2° at other angles
- Auto-off after 10 min
- Reading resolution 0.05°

## Technical Specifications

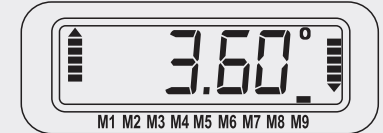
- Digital levelling: 360°
- LCD: 360° readout – display flips in upside down position. Wide screen LCD with LED backlight
- Functions and buttons:
  - Hold function
  - Mode function – degree, percentage, pitch in/ft and mm/m
  - 9 measurement memory storage and recall
  - Recalibration function
  - Reference angle ('False Zero')
  - Buzzer at 0°, 45°, 90°/mute function
- Electronic measuring precision: horizontal/vertical: ±0.1° at 0° and 90°
- Electronic measuring precision: ±0.2° from 2° to 89°
- Vial accuracy: ±0.5mm/m (0.0005 "1')
- Working temperature: -10°C to 45°C (14F to 113F)
- Storage temperature: -30°C to 50°C (-22F to 122F)
- Power supply: 9V battery (not included)
- Battery life: Over 8 hours continuous use
- Auto shut-off: After 10 minutes
- Splash/Dust resistance: According to standard IP54

## Memory and memory recall function

M1 Memory storage



M9 Memory storage



M1 Memory recall



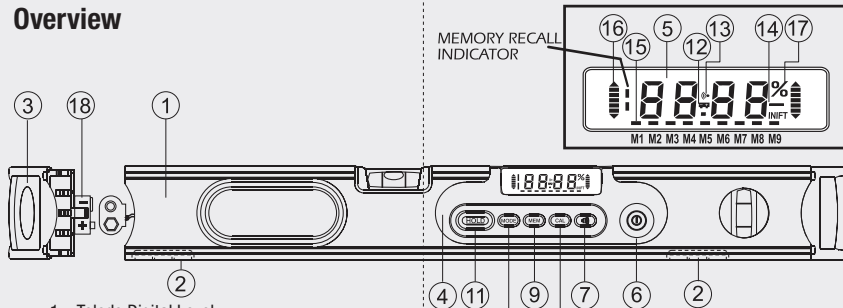
M9 Memory recall



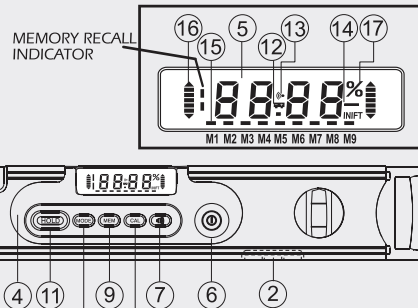
- Toledo digital levels can store 9 sequential measurements. To store the displayed measurement, press the memory button
- To recall stored measurements, press the memory button for 2 seconds
- The stored readings will be recalled in the order they were taken. The order is

- shown along the lower edge of the LCD in dashes M1 to M9.
- The LCD will show each recalled measurement with the indicator next to it
- To clear stored measurements, turn power off and back on

## Overview



- Toledo Digital Level
- Dual magnets
- Shock absorbing end caps
- Digital unit
- Wide screen LCD with backlight
- Power button
- Buzzer/Mute button
- Calibration/False zero button
- Memory/Recall button
- Mode button – degree, percentage, pitch in/ft and mm/m
- Hold button
- Low battery indicator
- Buzzer/mute indicator
- Reference angle indicator ('False 0')
- Memory recall indicators
- Directional arrows for horizontal and plumb levelling
- Mode indicators
- 9V Battery (not included)



### Power on/off:

- Press the power button to turn on level. Press again to turn off. If the angle of the unit does not change after 10 minutes, it will turn off automatically.

### Hold function:

- Press the hold button to freeze measurement display. Press again to return to active display.

### Mode function:

- Press the mode button to switch between degree, percentage, pitch in/ft and mm/m readings.

### Direction Arrow:

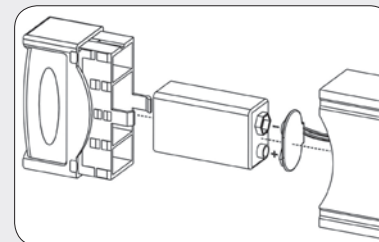
- There are two direction arrows on either side of the LCD display. They indicate which direction to move the Toledo level for a level or plumb measurement.

### Low Battery indication:

- When the battery is less than 7V, the low battery signal will be indicated on the LCD.

### Battery Change:

- Remove battery holder end cap and detach connectors from 9V battery.
- Replace battery, attach connectors according to battery polarity, and insert end cap into level.



## Calibration function

- Position the level on a level surface.
- Press the Calibration button for 2 seconds. The LCD will display 'CAL1' and then the measurement will flash.
- Rotate level 180° while keeping it flat on the level surface. Do not lift the level off of the surface.
- Once you have turned the level, wait for 5 seconds and then press the Cal button again for 2 seconds.
- The LCD will beep and display 'CAL2' and then display a level reading. The level is now calibrated and ready for use.

**Note:** If the LCD displays 3 dashes (- - -) after rotating the level 180°, this indicates that the level was not kept parallel to the

level surface during rotation. Start the calibration procedure again from Step 1.

### False Zero mode:

- To set a reference angle, press the Calibration button. The display will change to '0.0'. The False Zero icon will appear next to the measurement.
- To reset, press Calibration button again.

### Buzzer on/off:

- Press the Buzzer button to active the beep tone in the 0°, 45° and 90° angles. Press again to mute.

**Note:** Toledo recommends checking the calibration daily, if the level is dropped or if there has been a significant temperature change +/-20° since the previous calibration.