USER MANUAL

850.060DM	DIGITAL LEVEL 60CM
850.120DM	DIGITAL LEVEL 120CM

EN ENGLISH

Manual in your language?

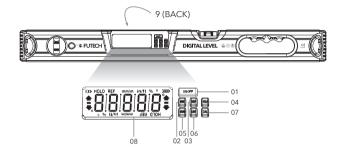
Check the back cover

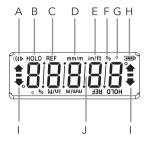






OVERVIEW





- DEVICE
- 01 ON/OFF button
- 02 MODE button
- 03 Reference Button
- 04 HOLD button
- 05 SOUND Button
- 06 LIGHT Button
- 07 Calibration button
- 08 LCD display

2

09 Battery cover

DISPLAY

- A Sound indicator
- B HOLD indicator
- C Reference indicator
- D mm/m measuring unit
- E in/ft measuring unit
- F % measuring unit
- G degree measuring unit
- H Battery indicator
- I Level indicators
- J Main display

SAFETY

Please read the complete safety instructions in the booklet delivered with this device.

When the product won't be used for a long time, extract the batteries.

BATTERY

Open the battery compartment [09] and insert the 2 x AAA batteries (DC 4.5V). Make sure the batteries are in the correct position.

When batteries are less then 5% charged, the battery indicator [H] will start flashing.

FIRST TIME USAGE

Remove all protection foils.

USE

POWER ON/OFF

- To power on the product, press the On/Off button [01] shortly. The LCD display [08] turns on.
- To switch off the product, shortly press the ON/ Off button [01]. The device powers off.

UNITS

Several units are available to show the slope. The

different options are: degrees (°), millimeter per meter (mm/m), percentage (%), inch/feet (in/ft).

 $\cdot\,$ Press the Mode button [02] shortly to change the unit.

The selected unit is shown in the upper right corner of the LCD display [08].

BACKLIGHT

The display backlight increases visibility in less bright environments.

• Press the light button [06] to change the setting of the backlight.

AUTOMATIC SHUT OFF

To save battery power, the digital level will switch itself off if not used for a certain time. This time can be set to 5 minutes or 2 hours.

• Hold the Mode button **[02]** to select the preferred shut off time.

The LCD display **[08]** shows '5' for 5 minutes or '2H' for 2 hours.

When 2 hours is selected, the battery indicator [H] stays on th display to remind you the 2 hour function is active.

Default setting is 5 minutes.

NOTE

When the battery is less than 5% charged, the system automatically shuts of the product after 5 minutes. Holding the mode button **[02]** will not initiate the setting options.

ZERO REFERENCE

This function allows the user to set every slope as reference (0°). This feature is useful when measuring the same slope over and over or finding the difference between two slopes.

__SETTING REFERENCE

- Position the level under the required slope to use it as reference.
- Press the Reference button [03] to program that angle as reference slope.

To find, for example, the difference between that and a second slope, now hold the device on the second slope and the difference in angle is directly displayed.

__EXITING REFERENCE MODE

4 5

• Press the **[03]** Reference button shortly to deactivate the Reference function.

HOLD FUNCTION

The hold button is a useful functionality when you are not able to read the display while working.

- Press the Hold button **[04]** to freeze the readout until you press the button again. 'HOLD' **[B]** is displayed on the LCD display.
- Press the Hold button [04] again to turn off the hold function.

SOUND NOTIFICATION

Sound assistance can be used for work in case that looking at the LCD is not possible.

• Press the Sound button [05] to enable the sound mode.

Once activated, a sound symbol [A] is visible on the LCD display [08].

• Press the Sound button [05] agian to disable the sound mode.

The sound symbol [A] is no longer visible on the LCD display [08].

These beeps can be heard:

Continuous	0°	90°
Fast	0.1° → 0.9°	89.9° → 89.1°
Medium	1.0° → 4.9°	89.0° → 85.1°
Slow	5.0° → 10.0°	85.0° → 80.0°

The inclination arrows [I] provide the desired turning direction. When levelled (0° or 90°), the display shows two hyphens at both sides of the LCD Display [08].

CALIBRATING DEVICE

NOTE

Calibration is recommended before each use. An 'ERROR' message is displayed when the product tilts too much for- or backwards (to display an accurate reading).

Two different types of calibration are available:

_QUICK LEVEL/PLUMB CALIBRATION

This method is used to (level/plumb) calibrate the device quickly.

- \cdot Turn on the digital level
- Hold the device against a (flat) surface/wall making sure the level bubble is centered.
- When holding the device in this position, hold the calibration button [07] for 3 seconds.

When done properly, the LCD Display [08] will flash 'CAL' on the screen. The calibration process started.

When moving/tipping the device during this process, 'ERROR' appears on the **[08]** LCD Display.

• To exit the calibration mode after an error, shortly press the calibration button [07].

You can restart the procedure. The calibration process is done when the LCD display **[08]** shows 'RDY'. The device automatically leaves the calibration mode.

__CALIBRATION

• When calibrating the device, put the device on a flat surface (i.e. surface of table).

This surface will be the reference surface.

• When holding the device under this angle, hold the calibration button [07] and the Mode button [02] for 3 seconds.

The calibration process initiated and the LCD Display **[08]** shows 'CAL1'.

- Push the Calibration button [07] shortly and the LCD Display [08] starts flashing 'CAL1'.
- When the LCD Display [08] shows 'CAL2', rotate the device 180° in such a way that the device is in the same position, but the screen faces now away from the user.
- · Push the Calibration [7] button shortly,
- · 'CAL2' will flash on the [08] LCD Display.

When ready, the device will automatically exit the calibration mode.

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MAINTENANCE

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Repairs or services are not covered in this manual and should only be carried out by qualified trained technicians. Periodically, wipe the body with a dry cloth. Do not use abrasives or solvents on this instrument. For service, use only manufacturer's specified parts.

TECHNICAL SPECIFICATIONS

	850.060DM DIGITAL LEVEL	850.120DM DIGITAL LEVEL			
Precision	± 0.1° for 0° and 90°				
	± 0.2° for other angles				
Protection	IP54				
Resolution	0.1°, 0.1%, 1/8″, .125″, 1 mm/m				
Optional units	in/ft - mm/m - ° - %				
Measurement range	4 x 90°				
Batteries	2 x AAA				
Battery life	±100 hours (continuous use)				
Dimensions (I x w x h)	27 x 600 x 63 mm	27 x 1200 x 63 mm (120cm)			
Weigth	0.67 kg	1.29 kg			
Working temperature	-10 °C < T < 50 °C				

C E DECLARATION OF CONFORMITY

Futech (Belgium) declares under its own responsibility that this device:

- 850.060DM Digital Level

- 850.120DM Digital Level

is in conformity with the standards

EN 61326-1:2013

Lier, Belgium, March 30, 2023 Patrick Waûters

Potential misprints are reserved. Images used are not strict. All features, functionality and other product specifications are subject to change without notice or obligation.

USER MANUAL

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