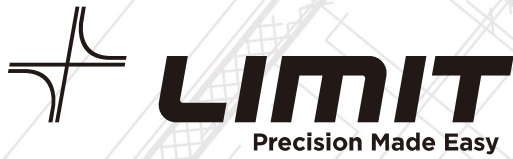


OPERATING MANUAL



Digital Level

Limit LDD 400 / Limit LDD 600

English.....	2	GB
Svenska	5	SE
Norsk	8	NO
Dansk.....	11	DK
Suomi	14	FI
Deutsch	17	DE
Netherlands	20	NL
Français.....	23	FR
Italiano	26	IT
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Português	32	PT
Polski	35	PL
Eesti.....	38	EE
Lietuviškai.....	41	LT
Latviski	44	LV

GB

OVERVIEW

Limit LDD is a digital level in aluminum housing with magnets in the base which can be attached to any steel object and a big LCD screen with backlight. 360° measurement both in absolute and relative value. 4 different measuring units and hold function.

FEATURES

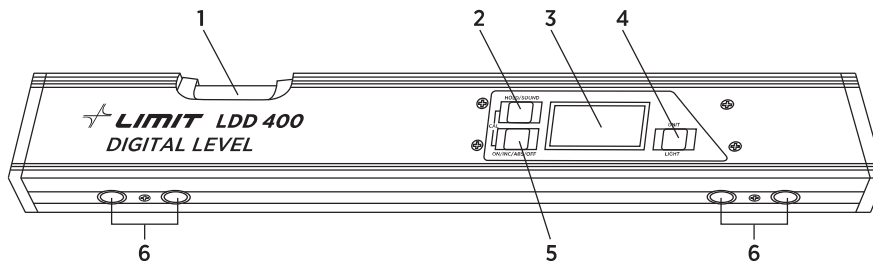
- LCD with 12,7 mm digits and backlight
- Selectable units: °, mm/m, %, in/ft
- Hold data function
- Absolut or relative measuring
- Horizontal vial (400)
- Horizontal and vertical vial (600)
- Machined surface with magnetic base
- 0° ang 90° sound assistance

SPECIFICATIONS

Measuring resolution	0° and 90°: 0.05°; Remaining range: 0.1°
Accuracy	0° and 90°: ±0.05° Remaining range: ±0.2°
Bubble level accuracy	±0.25°
Measuring range	4 × 90°, 1000 mm/m, 100%, 12 in/ft
Measuring units	°, mm/m, %, in/ft
Working temperature	0°C ~ 50°C (32°F ~ 122°F)
Working humidity	≤ 85% (non-condensing)
Operating time	~ 50 hours (continuous with backlight)
Power supply	2 × AAA alkaline batteries
Product size	400 / 600 mm × 60 mm × 25 mm

POSITIONS

1. Horizontal bubble level
2. HOLD/SOUND key
3. LCD screen
4. Units (°, mm/m, %, in/ft) and light key
5. ON/REF/OFF key
6. Magnets



DISPLAY SYMBOLS

	Replace batteries when flashing. Voltage below 2.2 V.
	Summer function is activated.
REF	Relative measuring mode.
H	HOLD function is activated.
	During absolute mode a digital vial will appear when within ±1° of 0° as a visual help.
-1-	Calibrating for first direction
-2-	Calibrating for opposite direction

OPERATIONS

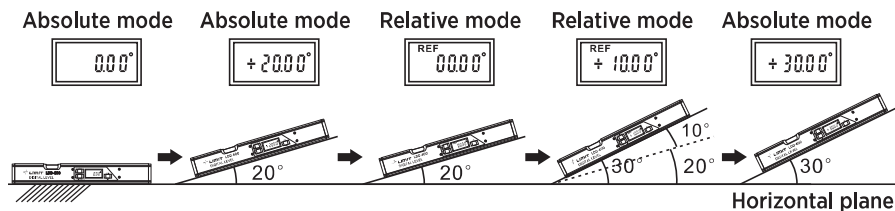
1. Power On and Off

- 1.1 Press the ON/REF/OFF key (5) to turn the unit on.
- 1.2 Press the ON/REF/OFF key for >2 seconds to turn off the unit.

GB

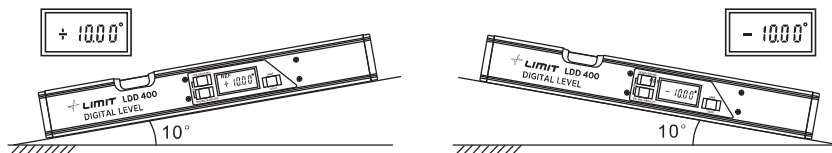
2. Absolut and relative measurements

- 2.1 When no "REF" symbol is shown in the display (3), the device will show the absolute value.
- 2.2 Push ON/REF/OFF key to set relative zero point. "REF" icon will appear in the display and the device will show the relative value.
- 2.3 To return to absolute function, press the ON/REF/OFF key.



3. +/- Symbol

- 3.1 The +/- symbol indicates the direction on how to adjust the surface to reach horizontal plane.



4. Measuring units

- 4.1 Press the mm/m, %, in/ft-LIGHT key (4) to select desired measuring unit.
- Note:** Selectable units are ° - mm/m - % - in/ft.

5. Backlight

- 5.1 Press and hold the mm/m, %, in/ft-LIGHT key to turn on or off the backlight.

6. Hold function

- 6.1 Press HOLD/SOUND key (2) to activate hold function, "H" symbol will appear in the display.
- 6.2 Press HOLD/SOUND key to turn off hold function.

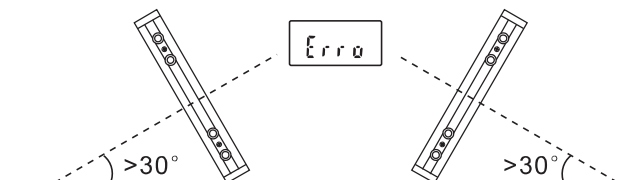
7. Sound assistance

- 7.1 Press and hold the HOLD/SOUND key for about 3 seconds to activate function. Display will show symbol.
- 7.2 To turn off, press and hold HOLD/SOUND key for about 3 seconds.

Note: When active the unit will start beeping $\pm 1,4^\circ$ for 0° and 90° . The closer it gets to these values the quicker it will beep until it gives solid tone when in $0,00^\circ$ and $90,00^\circ$.

8. ERRO

- 8.1 ERRO show in the display if vertical angel is $>30^\circ$.



9. Slope

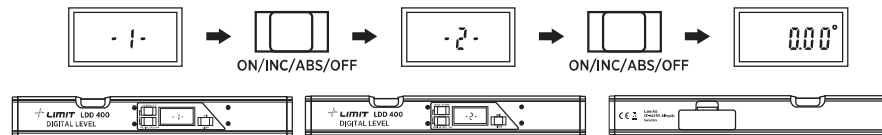
The product measures the slope of a surface in percent. This is useful when laying pipe for proper drainage. When the conversion button is in the slope mode, it will show "%". If the sound mode has been activated, the level will beep at 0.0%.

GB

10. Calibration

Note: The level is pre-calibrated from the factory and the unit should only be recalibrated if it has been dropped.

- 10.1 Place the unit on a flat and smooth surface and turn it on.
- 10.2 Press ON/REF/OFF key and HOLD/SOUND key at the same time, the display will show “-1-”.
- 10.3 Press ON/REF/OFF key again, “-1-” will start flashing.
- 10.4 Do not move until “-2-” shows on the display.
- 10.5 Rotate the unit 180° in the same location and press ON/REF/OFF key, “-2-” will flashing.
- 10.6 Do not move until the unit has completed the calibration.
- 10.7 Calibration is finished, and the display will display angle between the calibrated plane and the horizontal plane.



11. Battery installation or replacement

11.1 Replace batteries when the symbol in below (1) appears, follow (2) and (3).

