ADA INSTRUMENTS A00239 2D Basic Level Line Laser User Manual

Contents

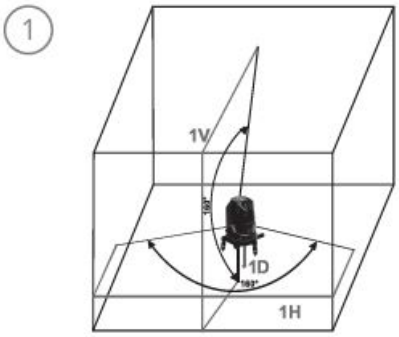
ADA INSTRUMENTS A00239 2D Basic Level Line Laser

THE MANUFACTURER RESERVES THE RIGHT TO MAKE CHANGES (NOT HAVING AN IMPACT ON THE SPECIFICATIONS) TO THE DESIGN, COMPLETE SET WITHOUT GIVING PRIOR WARNING.

APPLICATION

Line laser 2D BASIC LEVEL is designed to check the horizontal and vertical position of the surfaces of the elements of building structures and also to transfer the angle of inclination of the structural part to similar parts during construction and installation works.

SPECIFICATIONS



- Laser beam 1V/1H (angle 90°) / down point
- Light sources 3 laser diodes 635nm
- Laser safety class Class 2, <1mW
- Accuracy ±1,5mm / 5 m
- Self-leveling range ±3°
- Working range (with detector) 20 (40) m
- Power supply 3 x AA
- Operation time approx 15h with all lines ON

- Tripod thread 5/8”
- Operating temperature -5°C ~ +45°C
- Weight 0.25 kg

FUNCTIONAL DESCRIPTION

1. Emitting a horizontal and vertical laser line.
2. Quick self-leveling: when line accuracy is out of the range the laser line flashes and the warning sound is produced.
3. Low battery indication: the power LED flashes and warning sound is produced.
4. Rotation base with scale convenient for use (range 1°).
5. Compensator locking system for safe transportation
6. Indoor and outdoor performance function
7. Back-lighted bubble level

FEATURES

1. Laser beam power-on button
2. Back-lighted bubble level (V/H/VH)
3. Indoor/outdoor performance indicator
4. Indoor/outdoor performance power-on button
5. Battery compartment
6. Compensator locking grip (ON/X/OFF switch)
7. Adjusting screws
8. Base with scale
9. Horizontal laser window
10. Vertical laser window

OPERATION

1. Before use, remove the battery compartment cover. Insert three batteries into battery compartment with proper polarity, the put the cover back.
2. Set the compensator locking grip into ON position, two laser beams and a back-lighted bubble level will be on. If the switch is ON,that means the power and the compensation are opened. If the switch is X, that means the

power is opened,the compensation is still locked,but we can still issue the lines and dot if you push the keypad,also it will not warn if you issue the slope. It's the hand-mode. If the switch is OFF, that means shut off the power,the compensation is also locked.

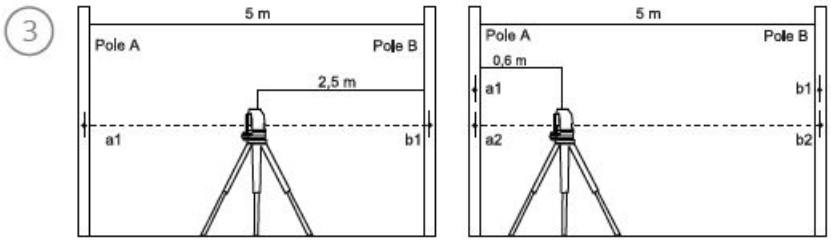
3. Press V/H button – the horizontal beam will turn on. Press the button V/H one more time – vertical laser beam will turn on. Again press the button V/H – horizontal and vertical beams will turn on.
4. Press the button D of device mode "indoor/outdoor", indicator will light. The device works in "outdoor" mode. Press the button one more time. The device will work in "indoor" mode.
5. During battery change, or when the device is on, control lamp may light or warning sound may be produced. This indicated for low battery charge. Please, change the batteries.

IMPORTANT

1. Set the locking grip in position ON: when the instrument is off, the compensator will be locked.
2. Install the device on surface: table, ground, etc.
3. The self-leveling function won't work if the surface is angled for more than +/-3 degrees. You have to adjust the screws and level the bubble at the center.
4. Put the instrument on surface and set locking button into ON position. Laser beam flashing and sound emission indicate that laser is out of self-leveling range. Adjust the screws to return the laser into self-leveling range.
5. Back-lighted bubble level will be on when the instrument is on.
6. Set the locking button in OFF position, keep the device in transportation case.
7. Line laser may be fixed on the tripod with the help of fixing screw 5/8".
8. Before packing the instrument into the transportation case, turn it off. Otherwise, sound will be produced, laser beam will blink and bubble level backlight will turn on.

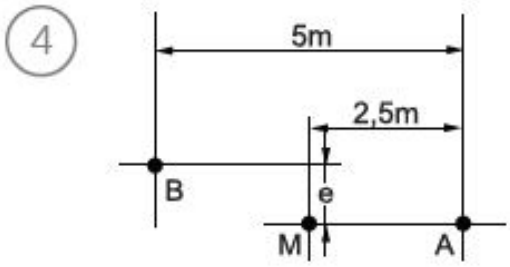
CHECKING INSTRUMENT BEFORE OPERATION

CHECKING ACCURACY



1. Set two range rods at a distance of 5 m.
2. Set the tripod in the center between two rods and place line laser at the tripod.
3. Turn the device on. Two laser beams will turn on. At rod A, mark point that is indicated by laser cross a1. Turn the laser for 180 degrees. At the rod B mark the point indicated by laser cross Ы.
4. Move the tripod in the way, to place the device at a distance of 60 cm from rod A. Repeat operation and make marks a2 and b2. Measure distance between points a1 and a2 and between Ы and b2. Accuracy of your laser device is considered to be within acceptable limit if the difference between first and second measurements is not more than 1,5 mm.

CALIBRATION OF HORIZONTAL BEAM ACCURACY



1. Set the line laser at distance of approximately 5m from the wall and mark point A indicated by laser cross.
2. Turn the line laser, move the beam approximately for 2.5m to the left and check the horizontal laser line to be within 2 mm at the same height that marked point indicated by the laser cross.
3. Turn the device and mark point B at distance of 5 m from point A.
4. Repeat the same actions moving the laser device to the right.

CALIBRATION OF VERTICAL BEAM ACCURACY

1. Set the laser device at distance of approximately 5m from the wall.
2. Mark point A at the wall.
3. Distance to point A will be 3m.
4. Fix the plumb at the wall 3m long.
5. Turn the plotter and direct vertical laser line to the plumb at the rope.
6. Accuracy of the line is considered sufficient if its deviation from vertical laser line is no more than 2mm.

APPLICATION

This line laser generates visible laser beam allowing to make the following measurements: Height measurement, calibration of horizontal and vertical planes, right angles, vertical position of installations, etc. The line laser is used for indoor performance to set zero marks, for marking out of bracing, installation of tingles, panel guides, tiling, etc. Laser device is often used for marking out in the process of furniture, shelf or mirror installation, etc. Laser device may be used for outdoor performance at distance within its operation range.

PRODUCT LIFE

Product life of the tool is 7 years. The battery and the tool should never be placed in municipal waste. Date of production, manufacturer’s contact information, country of origin are indicated on the product sticker.

CARE AND CLEANING

Please handle line laser with care. Clean with soft cloth only after any use. If necessary damp cloth with some water. If instrument is wet clean and dry it carefully. Pack it up only if it is perfectly dry. Transport in original container/case only. Note: During transport On/Off compensator lock (5) must be set to position “OFF”. Disregard may lead to damage of compensator.

SPECIFIC REASONS FOR ERRONEOUS MEASURING RESULTS

- Measurements through glass or plastic windows;
- Dirty laser emitting window;
- After line laser has been dropped or hit. Please check the accuracy;
- Large fluctuation of temperature: if instrument will beused in cold areas after it has been stored in warm areas (or the other way round) please wait some minutes before carrying out measurements.

ELECTROMAGNETIC ACCEPTABILITY (EMC)

It cannot be completely excluded that this instrument will disturb other instruments (e.g. navigation systems); will

be disturbed by other instru-ments (e.g. intensive electromagnetic radiation nearby industrial facilities or radio transmitters).

LASER CLASS 2 WARNING LABELS ON THE LASER INSTRUMENT

LASER CLASSIFICATION
The instrument is a laser class 2 laser product according to DIN IEC 60825-1:2007. It is allowed to use unit without further safety precautions.
SAFETY INSTRUCTIONS

- Please follow up on the instructions given in the operators' manual.
- Do not stare into the beam. Laser beam can lead to eye injury (even from greater distances).
- Do not aim laser beam at persons or animals. The laser plane should be set up above eye level of persons. Use the instrument for measuring jobs only.
- Do not open instrument housing. Repairs should be carried out by authorized workshops only. Please contact your local dealer.
- Do not remove warning labels or safety instructions.
- Keep instruments away from children.
- Do not use instruments in an explosive environment.

WARRANTY

This product is warranted by the manufacturer to the original purchaser to be free from defects in material and workmanship under normal use for a period of two (2) years from the date of purchase. During the warranty pe-riod, and upon proof of purchase, the product will be repaired or replaced (with the same or similar model at manufactures option), without charge for either parts of labor.
In case of a defect please contact the dealer where you originally purchased this product. The warranty will not apply to this product if it has been misused, abused or altered. Without limiting the foregoing, leakage of the battery, bending or dropping the unit are presumed to be defects resulting from misuse or abuse.
EXCEPTIONS FROM RESPONSIBILITY
The user of this product is expected to follow the instructions given in the operator's manual. Although all instruments left our warehouse in perfect condition and adjustment the user is expected to carry out periodic checks of the product's accuracy and general performance.
The manufacturer, or its representatives, assumes no responsibility of the results of a faulty or intentional usage or misuse including any direct, indi-rect, consequential damage, and loss of profits.
The manufacturer, or its representatives, assumes no responsibility for consequential damage, and loss of profits by any disaster (earthquake, storm, flood …), fire, accident, or an act of a third party and/or a usage in other than usual conditions.
The manufacturer, or its representatives, assumes no responsibility for any damage, and loss of profits due to a change of data, loss of data and interruption of business etc., caused by using the product or an unusable product.
The manufacturer, or its representatives, assumes no responsibility for any damage, and loss of profits caused by usage other thsn explained in the users' manual.
The manufacturer, or its representatives, assumes no responsibility for damage caused by wrong movement or

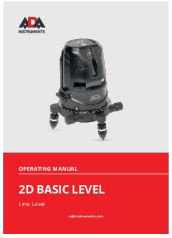
action due to connecting with other products.

WARRANTY DOESN'T EXTEND TO THE FOLLOWING CASES

1. If the standard or serial product number will be changed, erased, removed or wil be unreadable.
2. Periodic maintenance, repair or changing parts as a result of their nor-mal runout.
3. All adaptations and modifications with the purpose of improvement and expansion of the normal sphere of product application, mentioned in the service instruction, without the tentative written agreement of the expert pro-vider.
4. Service by anyone other than an authorized service center.
5. Damage to products or parts caused by misuse, including, without limitation, misapplication or nrgligence of the terms of service instruction.
6. Power supply units, chargers, accessories, wearing parts.
7. Products, damaged from mishandling, faulty adjustment, maintenance with low-quality and non-standard materials, presence of any liquids and foreign objects inside the product.
8. Acts of God and/or actions of third persons.
9. In case of unwarranted repair till the end of the warranty period because of damages during the operation of the product, it's a transportation and storing, the warranty doesn't resume.

ADA International Group Ltd., No.6 Building, Hanjiang West Road #128, Changzhou New District, Jiangsu, China
Made In China **adainstruments.com**

Documents / Resources

	**ADA INSTRUMENTS A00239 2D Basic Level Line Laser** [pdf] User Manual 00239 2D Basic Level Line Laser, 00239, 2D Basic Level Line Laser

References

- **ADA Instruments**