sola

METRON 120 BTC

Laser distance meter with Bluetooth

www.sola.at

EN

Operating Instructions METRON 120 BTC Laser Distance Meter (Translation of Original Version)

About this Manual

Congratulations on the purchase of your new METRON 120 BTC! You have acquired a SOLA measurement device, which can make your work easier, faster, and more precise. To utilize the complete functionality range of this measurement device, and to ensure safe operation, please observe the following instructions:

·   Please read these operating instructions before commissioning the device.
·   Always keep the operating instructions near the device.
·   Only hand over the device to other persons together with the operating instructions.
·   Never render the attached warning signs unreadable.

EN

Contents

EN

1. General Information

1.1 Signal Words and their Meaning

DANGER
For an imminent danger that could lead to serious injury or death.

WARNING
For a possibly dangerous situation that could lead to serious injury or death.

CAUTION
For a possibly dangerous situation that could lead to slight injury or property damage.

NOTICE
For application notes and other useful information.

1.2 Pictograms and Other Information

1.2.1 Warning Signs

Warning of dangers in general

1.2.2 Symbols

Read instructions before use.

Batteries and devices may not be disposed of with household waste.

Do not throw battery into the fire.

Do not heat battery above 60 °C.

Class 2 laser device

Do not look into the laser beam!

2. Delivery Contents

METRON 120 BTC Delivery Contents

1 1 × Laser distance meter
2 1 × Charging/data cable
3 3 × 1.2 V Ni-Mh rechargeable batteries
   (3 x 850 mAh)
4 1 × Belt case
5 1 × Strap
6 1 × Quick start

3. Description

3.1 Device Components and Function Buttons

1 Display
2 Camera
3 Measurement
4 Functions
5 Subtract/back/measurement memory
6 Add/forward
7 ON/OFF
8 Tripod connection 1/4"
9 Battery compartment
10 Side button measurement
11 Settings

EN

3.1 Device Components and Function Buttons

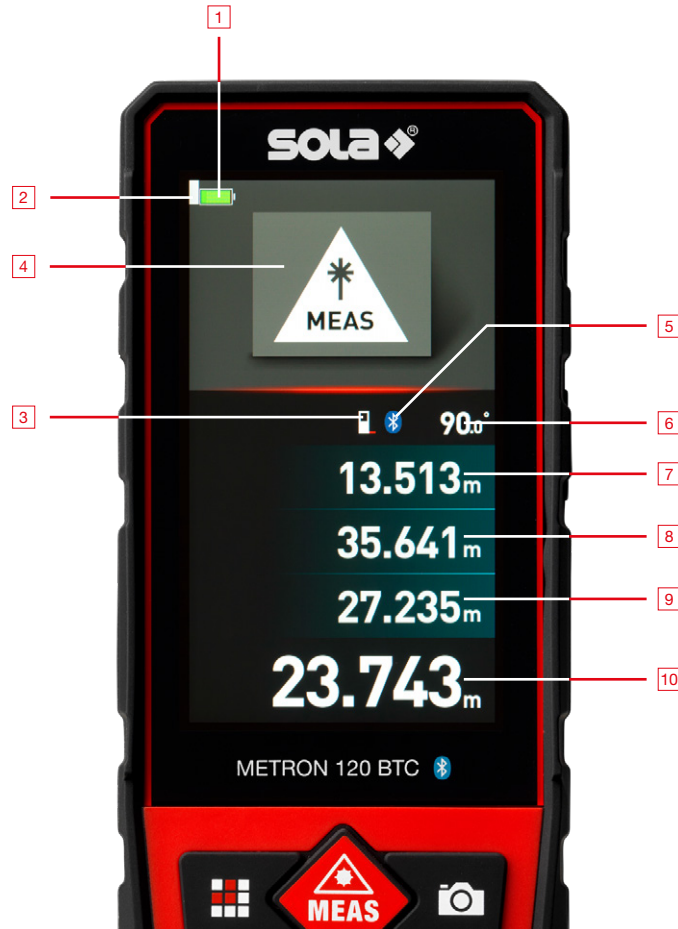12 USB-C connection
13 Camera opening
14 Laser emission opening
15 Laser reception opening

Description

3.2 Display

1   Battery status
2   Digital vial
3   Measuring edge
4   Measurement function
5   Bluetooth
6   Inclination laser distance meter
7   Measurement 1
8   Measurement 2
9   Measurement 3
10 Measurement result

3.3 Navigation

[1] Scroll back to menu item
[2] Scroll to next menu item
[3] Confirm menu item
[4] Select next selection option
[5] Select previous option
[6] Settings

SOLA®
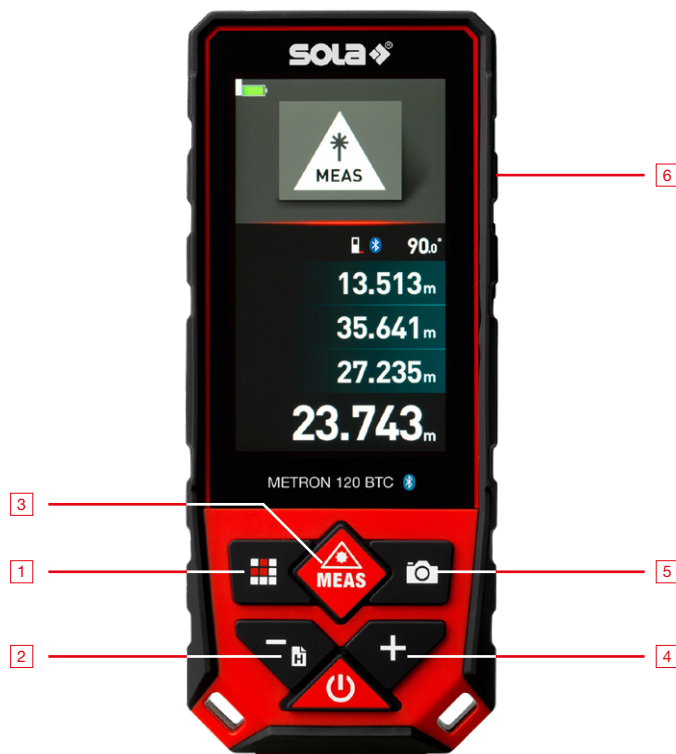
3.4 Settings

Units of measure	**m** 0.000	Meters, three decimal places
	m 0.0000	Meters, four decimal places (only available in single measurement mode)
	mm	Millimeters
	ft	Feet
	in	Inches
	, ,,	Feet and inches
Measuring edge		Front edge of device
		Rear edge of device (set as standard)
		Center of tripod connection
Rotate display		Screen rotation on (only available in single measurement mode)
		Screen rotation off
Bluetooth		Bluetooth on
		Bluetooth off
Beep		Beep on
		Beep off

Display background	123	White background
	123	Black background
Measurement memory		The device starts measuring after 5 seconds. The time-delayed measurement can be enabled in any function.
Measurement memory	H	Explanation on the next page.
Tolerance menu	+/–	Explanation on the next page.

Measurement Memory

Measured value memory for up to 1,000 photos and/or measured values.

Switch between data values and photos

Open menu to delete

Select previous memory value

Select next memory value

Confirm

Back

Tolerance Menu

Setting a base value (tolerance) that is added to, or subtracted from, each measurement result when being measured.

Cursor to the left

Cursor to the right

Subtract value

Add value

Confirm

Back

3.5 Intended Use

The device is designed to measure distances. The display shows the measurement, the setting, as well as the device status. An emitted laser beam is directed towards a reflective surface and sent back to the laser distance meter. This allows the distance to be determined.

The range depends on the model of the laser distance meter, the reflectivity, and the quality of the reflective surface.

4. Technical Data

4.1 General

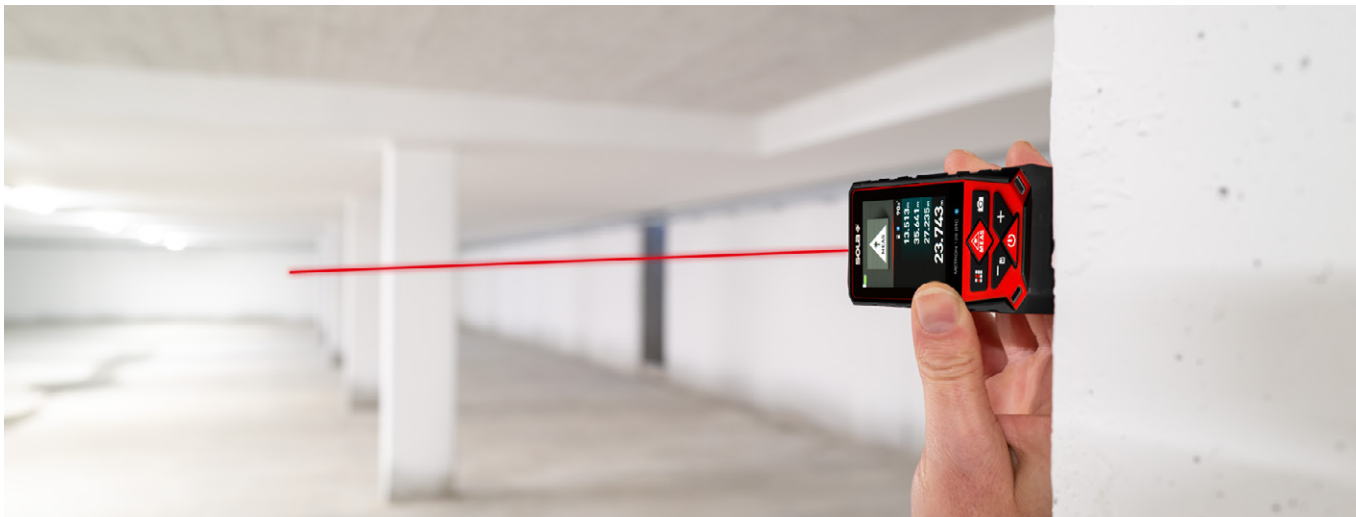|	
Usage area	0.05 to 120 m*
Measuring tolerance	±1.5 mm**
Protection class	IP65
Laser class	2
Laser type	630–670 nm < 1 mW
Automatic power off, laser	30 s
Automatic power off, device	180 s
Operating time	up to 5,000 measurements***
Battery type	3 × 1.2 V Ni-Mh rechargeable battery (3 × 850 mAh)
Operating temperature	0 °C to +40 °C
Measurement memory	1–1000

Storage temperature	–20 °C to +60°C
Tripod connection	1/4"
Dimensions	130 × 54 × 28 mm
Weight with batteries	190 g

* For measurements with 100% reflectivity of the target (e.g. a wall painted white), low background lighting, and 25 °C operating temperature. Measurements may become less accurate in adverse conditions, such as direct sunlight, a poorly reflective surface, or measurement on glass or glossy surfaces, leading to measurement errors. The visibility range of the laser point depends on the ambient conditions.
** Measuring tolerance applies from 0.05 to 10 m. For distances between 10 m and 120 m, the measurement result may deviate ±0.1 mm/m from the maximum tolerance.
*** Use at room temperature.

4.2 Functions

1 Length measurement

2 Min./max. measurement

3 Continuous measurement

4 **S** Area measurement

5 **V** Volume measurement

6 Indirect distance measurement

7 **d d d** Stake out function

8 **S** Circular area measurement
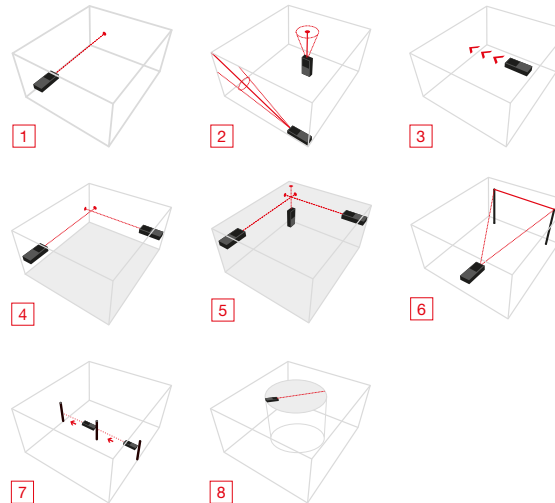
4.2 Functions

| 9 | V | Cylinder volume measurement |

| 10 | S | Triangular area measurement |

| 11 | | 2-point trapezoidal measurement |

| 12 | | 3-point trapezoidal measurement |

| 13 | | Indirect measurement via angle |

| 14 | | Automatic distance measurement |

| 15 | | Indirect 3-point measurement (1) |

| 16 | | Indirect 3-point measurement (2) |

| 17 | | Indirect 2-point measurement |

9　　10　　11

12　　13　　14

15　　16　　17
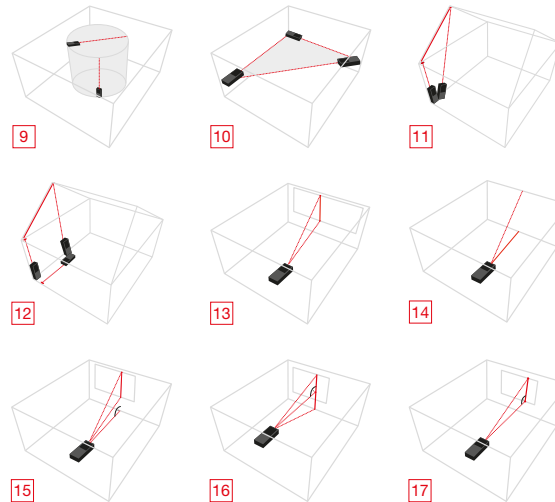
5. Safety Instructions

5.1 Area of Responsibility

5.1.1 Manufacturer
· SOLA is responsible for the safe delivery condition of the product, including the operating instructions and the original accessories.

5.1.2 Operator
· The operator is responsible for using the product as intended, the deployment of personnel, their training, and the operational safety of the product.
· The operator understands the safety information which is stated on the product and the instructions in the operating instructions.
· The operator shall comply with the standard local regulations relating to safety and accident prevention regulations as well as worker protection laws and regulations.
· The operator shall immediately notify SOLA if safety-related issues should arise relating to the product or during its utilization.
· The operator shall ensure that the product is not utilized any further if defects become evident, and they will have the product repaired professionally.

5.2 Improper Use

· Use of the device and the accessories without instruction.
· Use of third-party accessories or additional equipment.
· Use outside of the intended limits (see Chapter 4/Technical Data).
· Use under extreme temperature fluctuations without adequate acclimatization.
· Disabling of safety devices and removal of hazard notices and labels.
· Unauthorized opening of the device.
· Performance of modifications or alterations to the device or the accessories.
· Deliberate blinding of third parties.
· Inadequate safeguarding at the installation site.

5.3 Utilization Limitations

· The METRON 120 BTC is suitable for continuous use in an atmosphere which can be inhabited by humans.
· Do not operate the product in explosion-prone or corrosive environments.

EN

16

· Inform the local safety authorities and safety experts before working in hazardous environments, in close proximity to electrical installations or similar surroundings.

5.4 Usage Hazards

5.4.1 General

⚠ **WARNING**
Missing or incomplete instructions may result in improper or incorrect use. This can cause accidents with serious damage to persons, property, assets, and the environment.

· Follow the manufacturer's and operator's safety instructions.
· Protect equipment and accessories from being accessed by children.

⚠ **WARNING**
Blinding by laser radiation can indirectly lead to serious accidents, especially for people who are driving a vehicle or operating machinery. Do not look into the laser beam.

· Do not set up the laser beam and the laser plane at eye level or aim at people.

⚠ **CAUTION**
A fall, longer storage, transportation, or other mechanical effects can lead to erroneous measurement results. Check the unit for damage before use. Do not use damaged equipment.

· Repairs must only be performed by SOLA.

5.4.2 Batteries

⚠ **DANGER**
Mechanical damage can cause batteries and rechargeable batteries to leak, explode, or catch fire or trigger the release of toxic substances.

· Batteries and rechargeable batteries must not be opened or exposed to mechanical loads.
· Repairs must only be performed by SOLA.

⚠ **WARNING**

High ambient temperatures and immersion into liquids can cause batteries and rechargeable batteries to leak, explode, or catch fire or trigger the release of toxic substances.

· Protect batteries and rechargeable batteries from mechanical damage during transport.
· Do not overheat batteries and rechargeable batteries or expose them to fire.
· Avoid the ingress of moisture into batteries and rechargeable batteries.
· Do not use damaged batteries or rechargeable batteries. Perform a proper disposal (see Chapter 12/Disposal).

⚠ **WARNING**

Short-circuiting or improper use can cause batteries to overheat and create an injury or fire hazard.

· Do not transport or store batteries in the pockets of garments.
· Do not bring the battery contacts in contact with jewelry, keys, or other electrically conductive objects.
· Do not charge the batteries.
· Do not discharge the batteries through short-circuiting.

· Do not solder the batteries in the device.
· Do not mix old and new batteries, and do not mix batteries from different manufacturers or with a differing type designation.

⚠ **WARNING**

If disposed of improperly third parties may possibly be seriously injured and the environment polluted. Burning plastic components generate toxic fumes which may impair health. Batteries/rechargeable batteries may explode if they are damaged or heated excessively, and thereby cause poisoning, burning, corrosion, or environmental contamination. If disposed of negligently, unauthorized persons are able to use the product improperly.

· The product must not be disposed of together with household waste. Dispose of the device and accessories properly (see Chapter 12/Disposal).
· Protect the product against access by unauthorized persons at all times, especially children.

EN

5.5 Electromagnetic Compatibility (EMC)

· The electromagnetic compatibility is the ability of the product
  to function in an environment where electromagnetic radiation
  and electrostatic discharge are present, without causing
  electromagnetic interference to other devices.

5.5.1 Interference with Other Devices by METRON 120 BTC

· Although the product meets the strict requirements of the relevant
  directives and standards, SOLA cannot completely exclude the
  possibility of interference with other devices (for example, when
  using the product in combination with third-party devices, such
  as field computers, personal computers, wireless devices, mobile
  phones, certain cables, or external batteries).
· When using computers and radio equipment, be sure to
  observe to the vendor-specific information about
  electromagnetic compatibility.
· Only use original SOLA equipment and accessories.

5.5.2 Interference with the METRON 120 BTC by Other Devices

· Although the product meets the strict requirements of the relevant
  directives and standards, SOLA cannot entirely exclude the
  possibility that intense electromagnetic radiation in the immediate
  vicinity of radio transmitters, two-way radios, diesel generators,
  etc., may distort the measurement results.
· When performing measurements under these conditions, check
  the plausibility of the results.

EN

6. Laser Safety / Classification

The METRON 120 BTC emits a visible laser point.
The product corresponds to laser class 2 according to
DIN EN 60825-1:2014+A11:2021.

Laser Class 2:
When using Class 2 laser devices, the eye is protected by
the blink reflex or aversion reaction in the case of random
and short-term exposure.

⚠️ **WARNING**
Looking directly into the beam with optical aids (e.g. binoculars,
telescopes) can be dangerous.

⚠️ **CAUTION**
Looking into the laser beam may be hazardous to the eye.

· Do not look into the laser beam.
· Do not aim the laser beam at other people

Labeling on the Device:

CAUTION
LASER
2
LASER RADIATION
DO NOT STARE INTO BEAM
MAXIMUM OUTPUT <1mW
WAVELENGT 630-370nm
CLASS 2 LASERS PRODUCT
DIN EN 60825-1:2014+A11:2021
EN 50689:2021, 3 x 1.2 V Ni-MH Akku

SOLA-Messwerkzeuge GmbH
Unteres Tobel 25
A-6840 Götzis
sola@sola.at
www.sola.at
Made in PRC

Do not remove the type plate!

7. Getting Started

7.1 Batteries

The device uses 3 × 1.2 V Ni-Mh rechargeable batteries (3 × 850 mAh). The rechargeable battery charge status is shown on the display.

1 Please open the battery compartment with a screwdriver and insert the rechargeable batteries as shown in the picture.
2 Close the battery compartment properly and close it again.

Low battery charge   Fully charged
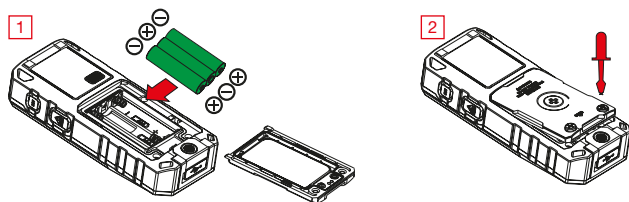
⚠ **WARNING**

If you are using non-rechargeable batteries, please DO NOT charge them via USB. Damage caused by the incorrect charging of non-rechargeable batteries is excluded from the warranty and we accept no liability for this. The device may become warm during the charging process. This is normal and does not affect the performance or service life of the product. To save energy, pull the charger plug and remove the batteries when the device is not in use.

EN

21

7.2 Belt Case

The laser distance meter can be stowed in a belt case for transport. The device must be removed from the case for measurement.

8. Operation

8.1 Basic Functions

8.1.1 Charging the Rechargeable Batteries
The rechargeable battery charge status is shown on the display. Charge the rechargeable batteries when the symbol is permanently flashing on the screen. Use the charging cable supplied to charge the laser distance meter or charge wirelessly via an inductive charging surface, which is not included in the delivery contents, by placing the device with its back on the inductive charging surface. The device can be used while charging and is fully charged after approx. 3 hours.

8.1.2 Switching On and Off
Press and hold the "ON/OFF" button for 1 second to turn the laser distance meter on. Press and hold the "ON/OFF" button for 1 second to turn the device off again.

8.1.3 Back
Press the "ON/OFF" button once to undo the most recent action. Press the "ON/OFF" button twice to exit the current function and return to single measurement mode.

8.1.4 Target Cross
If the search cross is red in camera mode, the viewfinder is still adjusting and no measurement can be taken until the search cross turns green, the viewfinder is in focus and a measurement can be taken.

8.1.5 Camera
Pressing the "Camera" button once enables the camera mode in 2x zoom, pressing the "Camera" button again switches to 4x zoom. Exit camera mode by pressing the "ON/OFF" button once.
Press and hold the "Camera" button to take a photo or screenshot using single measurement.

8.1.6 Addition/Subtraction
In the length, area and volume measurement functions, the "+" and "-" buttons can be used to add or subtract measured values. This process can be repeated indefinitely.

8.1.7 Measurement Memory

The laser distance meter has a measured value memory and can store up to 1,000 measured values.

8.1.8 Operating Instructions

The laser distance meter must not be moved during measurement. A use of a fixed support with end stop is recommended. Do not cover the laser emission field and the receiving area during measurement. Incorrect measurements are possible depending on the measuring surface. Textured, mirrored, transparent, or porous surfaces should be avoided.

8.2 Functions

8.2.1 Length Measurement

1 Switch on the laser distance meter.
2 Direct the laser point at the target.
3 Press the "Measure" button.
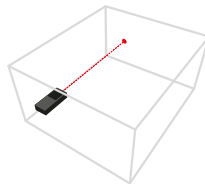
After the measurement is complete, the distance is displayed in the last line of the display. To measure additional distances, press the "Measure" button again.

8.2.2 Min./Max. Measurement

1 Switch on the laser distance meter.
2 Direct the laser point at the target.
3 Press and hold the "Measure" button for 2 seconds.
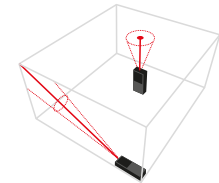
The minimum and maximum measurements are shown in lines 1 to 2. To stop the measurement, simply press the ON/OFF button again.

8.2.3 Continuous Measurement
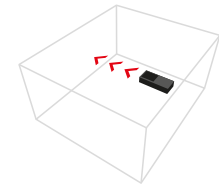
1 Switch on the laser distance meter.
2 Direct the laser point at the target.
3 Press and hold the "Measure" button for 2 seconds.

The laser distance meter measures the current distance and shows this on the bottom line of the display. To stop the measurement, simply press the ON/OFF button again.

EN

8.2.4 Area Measurement
1. Switch on the laser distance meter.
2. Call up the area measurement function and follow the instructions.
3. Using the "Measure" button, measure the length and width in succession as for a single measurement. The laser beam remains switched on between the two measurements.
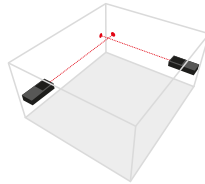
After completing the measurement, the area is automatically calculated and shown in the bottom line of the display. The single measurements are shown in lines 1 to 3.

8.2.5 Volume Measurement
1. Switch on the laser distance meter.
2. Call up the volume measurement function and follow the instructions.
3. Using the "Measure" button, measure the length, width and height in succession as for a single measurement. The laser beam remains switched on between the three measurements.
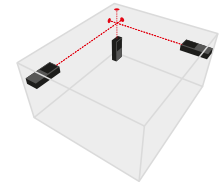
After completing the measurement, the volume is automatically calculated and shown in the bottom line of the display. The single measurements are shown in lines 1 to 3.

8.2.6 Indirect Distance Measurement

1. Switch on the laser distance meter.
2. Call up the indirect distance measurement function and follow the instructions.
3. The device calibrates itself for 5 seconds and should be placed on as flat a surface as possible and not moved during this time.
4. Using the "Measure" button, measure two relatively horizontal points next to each other.

After completing the measurement, the distance between the two measurement points is automatically calculated and displayed in the bottom line of the display. The single measurements are shown in lines 1 to 3.

8.2.7 Stake Out Function

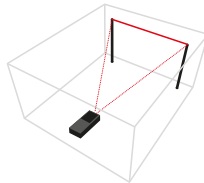This function allows you to measure and mark equal distances very quickly:

1. Switch on the laser distance meter.
2. Call up the stake out measurement function and follow the instructions.
3. Enter stake out lengths A or B respectively. "A" refers to the initial value at which the measurement should begin, "B" refers to the recurring distance that you want to mark. You can find a more detailed explanation on input on page 27.
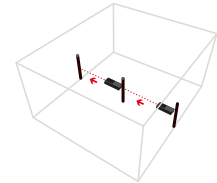
Continue with sections 4 5 6 as from page 28.

The following buttons are available for entering the stake out measurement (from section 8.2.7):

Cursor to the left

Cursor to the right

Decrease value

Increase value

Confirm

Back

⚠️ **CAUTION**
Note the set measuring edge before marking.

Once the values have been entered, the stake out measurement starts. The indications on the display will help you as a guide:
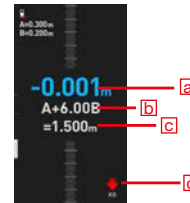
a Displays the distance to the point to be marked.

b Displays how often A and B have been reached at the current point.

c Displays the total measurement.

d Direction arrows show the direction to the next point.

EN

27

4 Carry out the measurement by moving the device slowly along the stake out line. When the laser distance meter reaches target A, you will hear a beep (if enabled). Mark the point when the upper value is zero (pay attention to the measuring edge of the device). The starting point for the stake out measurement is specified.

5 Continue to move the device along the stake out line. As you approach the point for distance B, you will hear a beep (if enabled). Mark the point when the upper value is zero (pay attention to the measuring edge of the device). Distance B is specified.

6 Continue as in steps 4 and 5 until all the desired points have been marked.
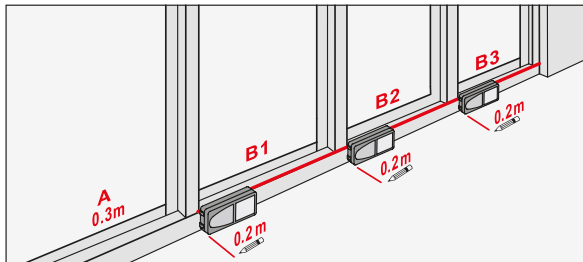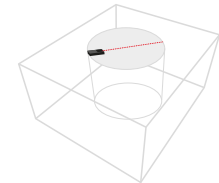

8.2.8 Circular Area Measurement

1 Switch on the laser distance meter.
2 Call up the circular area measurement function and follow the instructions.
3 Using the "Measure" button to measure the diameter as for a single measurement.

After completing the measurement, the area is automatically calculated and shown in the bottom line of the display.
The single measurements are shown in lines 1 to 2.

8.2.9 Cylinder Volume Measurement

1 Switch on the laser distance meter.
2 Call up the cylinder volume measurement function and follow the instructions.
3 Using the "Measure" button, measure the diameter and height in succession as for a single measurement.

After completing the measurement, the volume is automatically calculated and shown in the bottom line of the display.
The single measurements are shown in lines 1 to 3.

8.2.10 Triangular Area Measurement

1 Switch on the laser distance meter.
2 Call up the triangular area measurement function and follow the instructions.
3 Using the "Measure" button, measure the three measurement points in succession as for a single measurement.

After completing the measurement, the area is automatically calculated and shown in the bottom line of the display. The single measurements are shown in lines 1 to 3.

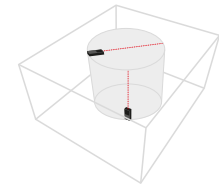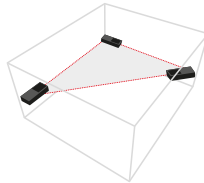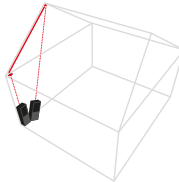### 8.2.11 2-Point Trapezoidal Measurement

1 Switch on the laser distance meter.
2 Call up the 2-point trapezoidal measurement function and follow the instructions.
3 Using the "Measure" button, measure the two indicated measurement points in succession as for a single measurement.

After completing the measurement, the distance between the two measurement points is automatically calculated and displayed in the bottom line of the display. The single measurements are shown in lines 1 to 3.

8.2.12 3-Point Trapezoidal Measurement

1 Switch on the laser distance meter.
2 Call up the 3-point trapezoidal measurement function and follow the instructions.
3 Using the "Measure" button, measure the three indicated measurement points in succession as for a single measurement.

After completing the measurement, the distance between the first and third measurement points is automatically calculated and displayed in the bottom line of the display. The single measurements are shown in lines 1 to 3.
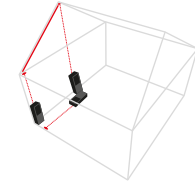
EN

29

8.2.13 Indirect Measurement via Angle

1 Switch on the laser distance meter.
2 Call up the indirect distance measurement via angle function and follow the instructions.
3 Using the "Measure" button, measure the two indicated measurement points in succession as for a single measurement.

After completing the measurement, the distance between the two measurement points is automatically calculated and displayed in the bottom line of the display. The single measurements are shown in lines 1 to 3.

> ⚠️ **CAUTION**
> The two points must be measured in a line and the second measurement point must be at a right angle to the measuring surface, otherwise the measurements may be incorrect.

8.2.14 Automatic Distance Measurement

1 Switch on the laser distance meter.
2 Direct the laser point at the target.
3 Press the "Measure" button.

After the measurement is complete, the distance is displayed in the last line of the display. The single measurements are shown in lines 1 to 3.

8.2.15 Indirect 3-Point Measurement (1)
[1] Switch on the laser distance meter.
[2] Call up the indirect 3-point measurement
     function and follow the instructions.
[3] Using the "Measure" button, measure
     the three indicated measurement
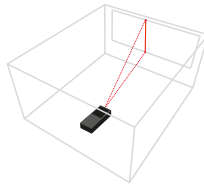   points in succession as for a single
     measurement.

After completing the measurement, the distance between the first
and second measurement points is automatically calculated and
displayed in the bottom line of the display. The single measurements
are shown in lines 1 to 3.

⚠ **CAUTION**
The two points must be measured in a line and the third
measurement point must be at a right angle to the measuring
surface, otherwise the measurements may be incorrect.

8.2.16 Indirect 3-Point Measurement (2)
[1] Switch on the laser distance meter.
[2] Call up the indirect 3-point measurement
     function and follow the instructions.
[3] Using the "Measure" button, measure
     the three indicated measurement points
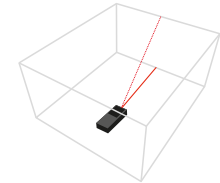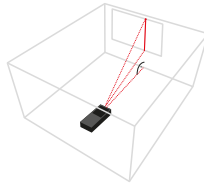   in succession as for a single
     measurement.

After completing the measurement, the distance between the first
and third measurement points is automatically calculated and
displayed in the bottom line of the display. The single measurements
are shown in lines 1 to 3.

⚠ **CAUTION**
The two points must be measured in a line and the second
measurement point must be at a right angle to the measuring
surface, otherwise the measurements may be incorrect.

EN

31

8.2.17 Indirect 2-Point Measurement

1 Switch on the laser distance meter.
2 Call up the indirect 2-point measurement
   function and follow the instructions.
3 Using the "Measure" button, measure
   the two indicated measurement points in
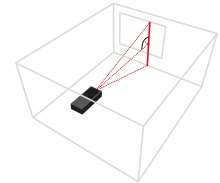   succession as for a single measurement.

After completing the measurement, the distance between the first
and second measurement points is automatically calculated and
displayed in the bottom line of the display. The single measurements
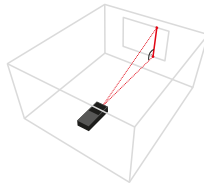are shown in lines 1 to 2.

> ⚠ **CAUTION**
> The two points must be measured in a line and the second
> measurement point must be at a right angle to the measuring
> surface, otherwise the measurements may be incorrect.

9. Maintenance, Storage, and Transportation

9.1 Cleaning

· Wipe off the dirt with a soft damp cloth.
· Check the outlet openings of the laser distance meter regularly, and thoroughly clean them if necessary. Do not touch the glass with your fingers.
· Do not use aggressive cleaning agents or solvents.
· Do not immerse the device in water!
· Clean and dry wet equipment, accessories, and transport containers prior to packaging them. Only pack equipment again when it is completely dry.
· Keep plug connections clean and protected from moisture.

9.2 Storage

· The equipment may only be stored within the specified temperature limits (see Chapter 4/Technical Data).
· After prolonged storage, check the accuracy of the measuring device before using it.

9.3 Transport

· The device may be damaged if it falls or is subjected to strong vibrations.
· Never transport the product loose. Always use the original packaging or an equivalent transport container.
· Switch off the measuring device before transporting it.
· Check the unit for damage before use.

10. Troubleshooting

Error	Possible Cause	Remedy
204	Calculation error	Take the measurement again. When doing so, pay attention to the measurement sequence and the positioning of the device.
208	Excessive power consumption	Please contact your dealer.
220	Low rechargeable battery level	Charge the rechargeable batteries or change to normal batteries.
255	The reception of the reflective signal is too weak or the measurement time is too long.	Repeat the measurement on another surface with better reflective properties or use a target.
256	The reception of the reflective signal is too strong.	Repeat the measurement on another surface with better reflective properties or use a target.
261	Distance out of the measuring range	Stay within the measuring range.
500	Hardware error	Switch the device on and off several times. If the error message continues to appear, contact your dealer.

11. Disposal

· If disposed of improperly third parties may possibly be seriously injured and the environment polluted.
· Burning plastic components generate toxic fumes which may impair health.
· Batteries may explode if they are damaged or heated excessively, and thereby cause poisoning, burning, corrosion, or environmental contamination.
· If disposed of negligently, unauthorized persons are able to use the product improperly.

Measuring tools, accessories and packaging must be recycled in an environmentally friendly manner.

The product as well as the accessories – especially the batteries and rechargeable batteries – must not be disposed of with household waste.

Dispose of the device and the accessories properly.
Only dispose of rechargeable batteries when discharged.
Observe the country-specific disposal requirements.

Your SOLA dealership will accept returned batteries as well as old equipment, and will ensure proper disposal.

Only for EU Countries
Electric tools must not be disposed of with household waste!

According to European Directive 2002/96/EC on Waste Electrical and Electronic Equipment and its transposition into national law, electrical and electronic equipment that is no longer usable must be collected separately and recycled in an environmentally friendly manner.

EN

12. Manufacturer's Guarantee

"The manufacturer warrants to the original purchaser stated on the guarantee card, freedom from defects of the device for a period of two years, with the exception of batteries, from such time as the device is handed over. The guarantee is limited to repairs and/or replacements at the manufacturer's discretion. Defects which are caused through improper handling by the purchaser or third parties, natural wear, and optical flaws that do not affect the usability of the equipment, are not covered by this guarantee. Claims under this guarantee can only be invoked if the device is submitted along with the guarantee card, completely filled out by the dealer, dated, and provided with the company stamp.

If the guarantee claim is justified, the manufacturer shall bear the transport costs. The duration of the guarantee will not be extended through repair or spare parts work which is carried out within the scope of the guarantee. Further claims are excluded, unless these are stipulated by the respective national legislation. In particular the manufacturer shall not be liable for any direct, indirect, incidental, or consequential damages, losses or expenses in connection with device's use or because of the inability to use the tool for any purpose whatsoever. Implied warranties for the usage or suitability for a particular purpose are expressly excluded."

EN

SOLA

Passion for Precision

SOLA-Messwerkzeuge GmbH
Unteres Tobel 25
6840 Götzis, Austria
T +43 5523 53380-0
sola@sola.at, www.sola.at

SOLA-Messwerkzeuge GmbH & Co. KG
Heuriedweg 69
88131 Lindau, Germany
T +49 8382 28585
sola@sola.at, www.sola.de

SOLA Suisse AG
Grenzstrasse 24
9430 St. Margrethen, Switzerland
T +41 71 740 1616
info@solasuisse.ch, www.solasuisse.ch