

**SOLA**  
**GO Smart Smart**  
**Digital Inclinometer**



# sola GO Smart Smart Digital Inclinometer Instruction Manual

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**sola GO Smart Smart Digital Inclinometer**



## Specifications

- **Device Name:** Go! SMART
- **Measurement Type:** Inclinations
- Acoustic Reproduction of Inclination Ranges
- **Display Units:** Various units of measurement
- **Connectivity:** Bluetooth interface for mobile devices

## Contents included with Go! SMART

1. GO! smart
2. AA battery
3. Quick start guide
4. Belt pouch



### **About this manual**

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

- Please read this operating manual before starting to use the device.
- Always keep the operating manual near the device.
- If you let others use your device, please give them the device with the operating manual.
- Never render the attached warning signs unreadable.

### **General information**

#### **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.

##### **NOTE**



For application notes and other useful information.

#### **Pictograms and other information**

##### **Warning signs**

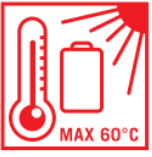
-  Warning of dangers in general

##### **Symbols**

-  Read the operating manual before use
-  Batteries and devices must not be disposed of with household waste



- Do not throw batteries into the fire



- Do not heat the battery above 60 °C.

## Description

### Device components, display, and operating elements

1. On/Off switch
2. Hold function (measurement is retained by pressing once) / Toggling between ABS (absolute) and INC (incremental)
3. Mode button for switching between measured value settings (°, mm/m, %, in/ft)
4. Calibration
5. Changing the display resolution



### Intended use

The device is designed to measure inclinations. Defined inclination ranges are reproduced acoustically. Measured values can be displayed in various units of measurement and transmitted to mobile devices via a Bluetooth interface.

### Technical data

#### Gradient module

- Max. measurement tolerance
  - $-0^{\circ} - 90^{\circ} \pm 0.05^{\circ}$
  - $-1^{\circ} - 89^{\circ} \pm 0.20^{\circ}$
- Protection class IP 52
- Power supply 1 x AA battery

- Battery life (at 20°C) 65 h (if display light switched off, approx. 80h)

## **Permissible temperatures**

- Operating temperature -10°C to +50°C
- Storage temperature -20 °C to +60 °C

## **Safety Instructions**

### **AREA OF RESPONSIBILITY**

#### **Manufacturer**

SOLA is responsible for delivering a safe and immaculate product, including the operating manual and original accessory equipment.

SOLA-Messwerkzeuge GmbH Unteres Tobel 25 A-6840 Götzis KESON LLC 810 N. Commerce St. Aurora, Illinois 60504

#### **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 manual.
- 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.

#### **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 3 / Technical data).
- Use under extreme temperature fluctuations without an 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.

#### **Utilization limitations**

- The Go! Smart 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.
- Inform the local safety authorities and safety experts before working in hazardous environments, in close proximity to electrical installations or similar surroundings.

## **Usage Hazards**

### **General**

#### **WARNING**

Missing or incomplete instructions may result in improper or incorrect use. This can cause accidents with serious damages 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.

#### **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.
- Before use, check the accuracy of the device (see Chapter 8 / Checking the accuracy).

### **Charger / batteries / rechargeable batteries**

#### **DANGER**

Mechanical damage can cause 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.
- Damaged batteries, chargers and charging stations may not be used.
- Repairs must only be performed by SOLA.

#### **WARNING**

High ambient temperatures and immersion into liquids can cause a leakage, fire or explosion of the batteries 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**

A short-circuit or unintended 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 jewellery, keys, or other electrically conductive objects.
- Do not charge non-rechargeable 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 can possibly be seriously injured and the environment polluted. The burning of plastic components generates toxic fumes, which may impair the health of people. 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 may 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, and especially children.

## **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.

### **Interference of other devices by Go! smart**

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, make sure to observe to the vendor-specific information about electromagnetic compatibility.
- Only use original SOLA equipment and accessories.

### **Interference with the Go! smart 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.

## **FCC statement**

### **WARNING**

The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules. The following two conditions apply for operation:

1. this device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

### **NOTE**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part

15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### **ISED statement**

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

#### **IC Radiation Exposure Statement**

This equipment complies with FCC and Canada radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

#### **Use of the product with Bluetooth**

#### **WARNING**

Electromagnetic radiation can cause disturbances in other equipment, in installations (e.g. medical ones such as pacemakers or hearing aids) and in aircraft. It can also affect humans and animals. Precautions: Although this product conforms to the most stringent standards and regulations, the possibility of harm to people and animals cannot totally be excluded.

- Do not use the product near gas stations, chemical plants, in areas with an increased risk of explosion and where blasting takes place.
- Do not use the product near medical equipment.
- Do not use the product in airplanes.
- Do not use the product near your body for extended periods of time.

#### **Start-up**

Prior to initial set-up, check whether the batteries have been installed correctly in the device.

#### **Inserting batteries**

1. Open the battery compartment cover.
2. Insert the battery, making sure that the poles of the battery are in the right position.
3. Close the battery compartment cover.



**Only use type AA batteries!**

Remove the battery if the instrument is not to be used for an extended period.

**Operation****Switching On/Off****On**

Press the “On/Off switch” to switch on the gradient module.

**Off**

Press the “On/Off switch” for at least 2 seconds to switch off the gradient module.

**Display**

If the gradient spirit level is used in the inverted position (upside down – above your head), the display screen turns too so that the measurement can be read easily. The display switches off automatically after 5 minutes, as soon as the device is no longer being moved.

**Acoustic signal**

By pressing the display circuit ° / mm / m / % / in / ft / on / off switch acoustic (signal at 0 ° and 90 °) for more than 2 seconds, the acoustic signaling is switched on. The closer the gradient spirit level gets to the standard position, the more rapid the frequency of the acoustic signal. This function assists you with leveling work where it is not possible for you to read the measurement from the display.

**Hold function**

The current measurement is frozen by pressing the “Hold function” once. A previously measured value can be “frozen” on the display using this function. The measurement remains unchanged until the “Hold function” button is pressed again.

**Toggling between ABS and INC**

You can toggle between ABS (absolute) and INC (incremental) by pressing the “Hold function” for more than 2 seconds. In “ABS” (absolute) mode, the measurement result is displayed based on the device calibration. In contrast, in “INC” (incremental) mode, the measurement result is displayed based on a relative reference level. For example, you can take a measurement on a 5° inclined plane in “ABS” mode and then toggle to “INC” function. In doing so, the measurement display is set to 0°. You can now take additional measurements based on this new zero value. To leave “INC” mode, press the button again for 2 seconds.

**Changing measurement display**

Press “Mode button ° / mm / m / % / in / ft / on / off switch acoustic” (Signal at 0 ° and 90 °) to switch between ° / mm / m / % / in / ft.

**Changing the display resolution**

By simultaneously pressing the display switching ° / mm / m / % / in / ft on / off switch acoustics (signal at 0 ° and 90 °) and the button on / off switch/display lighting for more than 2 seconds, you can switch between two Select resolutions: 0.00 ° and 0.0 °.

**Bluetooth**

Fast and efficient data transfer of measured values can be made directly to a smartphone via Bluetooth.





**NOTE**

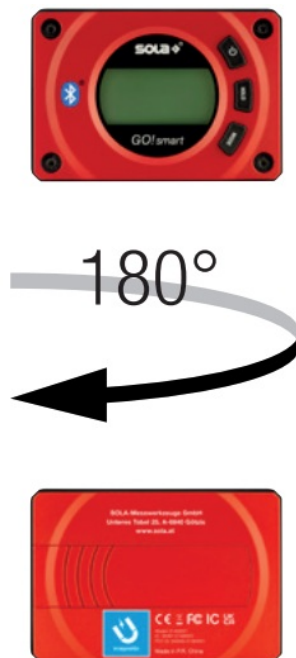
To connect to the smartphone, start the SOLA Measures app and establish a connection in the corresponding menu item using “Connect”.

## Calibration and adjustment

### Calibration of gradient module

Calibration stage 1 based on position 0°

- Place the GO! smart with the measurement surface horizontally
- Briefly press the buttons  and .
- Display -1- appears on the screen
- Press the  button briefly, display -1- flashes for approx. 5 seconds
- Display -2- appears on the screen
- Turn GO! smart again by 180°
- Press the  button briefly, display -2- flashes for approx. 5 seconds
- Measurement display appears on the screen, calibration stage 1 is complete.



## Maintenance storage and transportation

### Cleaning

- Wipe off the dirt with a soft damp cloth.
- 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.

### Storage

### General

- The equipment may only be stored within the specified temperature limits (see Chapter 3 / Technical data).
- After prolonged storage, check the accuracy of the measuring device before using it.

### **Batteries / rechargeable batteries**

- To store the rechargeable battery remove it from the device or the charging station.
- They should preferably be stored in a dry environment at room temperature (see Chapter 3 / Technical data).  
Protect from moisture and humidity. Dry wet or damp batteries before storage before usage.
- Before storing for extended periods, charge the battery to 80% capacity (see Chapter 7 / Operation). Repeat the process every six months during storage.
- After storage, fully charge the battery.
- Check battery for any damage before use. Do not use damaged equipment.

### **Transport**

#### **General**

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.

#### **Batteries/rechargeable batteries**

The operator is responsible for adhering to the regulations and requirements valid on a national and inter-national level when transporting or sending batteries and rechargeable batteries.

- Before shipping, remove the batteries from the device.

### **Delivery contents and accessories**

#### **Scope of delivery for Go! Smart**

- GO! smart
- AA battery
- Quick start guide
- Belt pouch

Further information on accessories can be found at [www.sola.at](http://www.sola.at) / [www.sola.us](http://www.sola.us)

### **Troubleshooting**

Error	Possible Cause	Remedy
Device is switched on, no display, screen not illuminated	Battery flat	Replace battery
Display jumps or screen “frozen”	Battery inserted incorrectly Device or switch faulty	Insert battery correctly. Contact dealer and have device repaired
Irregular display screen	Program error	Remove the battery, wait one minute, and reinsert batteries
Device switches itself on Commissioning and immediately out again	Battery power low	Replace battery
	Battery empty	Battery empty

## Disposal

If disposed of improperly, third parties can possibly be seriously injured and the environment polluted. Burning plastic components generates 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.



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 – may not be disposed of with household waste.

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

## 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.

## Manufacturers'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 that 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 that 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 the 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."

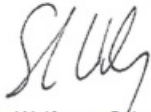
## **EC conformity declaration**

### **Declaration of Conformity**

- declare under our sole responsibility that the Product(s)
- GO! smart to which this declaration relates is in conformity with the following standards.
  - EMC
  - EN 61326-1: 2013
- **Radio transfer**
  - EN 301489-1 V2.2.3
  - EN 301489-17 V3.2.4
  - EN 300328 V2.2.2
  - EN 62479: 2010
  - EN 50663: 2017

Following the provisions of Directive(s)

### **Electromagnetic compatibility 2014/53/EU RED**

SOLA-Messwerkzeuge GmbH  
  
Mag. Wolfgang Scheyer CEO

## **UKCA conformity declaration**

### **Declaration of Conformity**

- declare under our sole responsibility that the Product(s)
- GO! smart to which this declarations relates is in conformity with the following standards.

**EMC** EN 61326-1: 2013

### **Radio transfer**

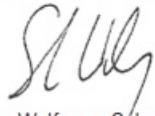
- EN 301489-1 V2.2.3
- EN 301489-17 V3.2.4
- EN 300328 V2.2.2
- EN 62479: 2010

- EN 50663: 2017

Following the provisions of Directive(s)

## Electromagnetic compatibility 2014/53/EU RED

SOLA-Messwerkzeuge GmbH

  
Mag. Wolfgang Scheyer CEO

## FAQs


### Q: What should I do if the device shows inaccurate measurements?

A: Check the accuracy of the device by following the instructions in Chapter 8 of the manual. If issues persist, contact SOLA for assistance.


### Q: Can children operate this device?

A: Children should not have access to the equipment or its accessories. Ensure that the device is safely stored away from children's reach.

## Documents / Resources

	<p><a href="#">sola GO Smart Smart Digital Inclinator</a> [pdf] Instruction Manual GO Smart Smart Digital Inclinator, GO Smart, Smart Digital Inclinator, Digital Inclinator, Inclinator</p>
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## References

-  [Sola Measuring Tools U.S.A.](#)
- [User Manual](#)

### Manuals+. Privacy Policy

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