

# Leica GS05



Quick Guide  
Version 1.0  
English

- when it has to be right

**Leica**  
Geosystems



# 1 Important Information about your Instrument

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Read and follow the User Manual on the accompanying data storage device before using the product.

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Keep for future reference!

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## Intended use

- Computing with software
  - Recording measurements
  - Carrying out measurement tasks using various GNSS measuring techniques
  - Recording GNSS and point related data
  - Remote control of product
  - Data communication with external appliances
  - Measuring raw data and computing coordinates using carrier phase and code signal from GNSS satellites (GNSS systems)
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The product must not be disposed with household waste.

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**For the AC/DC power supply:**



**Unauthorised opening of the system**

Serious injuries due to electrical shock and damage to product.

**Precautions:**

- ▶ Do not open the system when it is connected to the power source.
- ▶ Only open the product if you have completed Leica Geosystems service training.

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**EU**



Hereby, Leica Geosystems AG declares that the radio equipment type G505 is in compliance with Directive 2014/53/EU and other applicable European Directives.  
The full text of the EU declaration of conformity is available at the following Internet address: <http://www.leica-geosystems.com/ce>.

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**USA**

FCC ID: UHF: RFD-LG1001, LTE: RFD-LG1002  
Part 15, Part 15 B, 22, 24

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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, it may cause harmful interference to radio communications.

However, there is no guarantee that interference does 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 the 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.

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**Canada**

CAN ICES-003 B/NMB-003 B

IC: UHF: 3177A-LG1001, LTE: 3177A-LG1002

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### **Canada Compliance 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

### **Canada Déclaration de Conformité**

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement du dispositif

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## **Japan**

- This device is granted pursuant to the Japanese Radio Law (電波法).
  - This device should not be modified (otherwise the granted designation number will become invalid).
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## 2

## Instrument Components

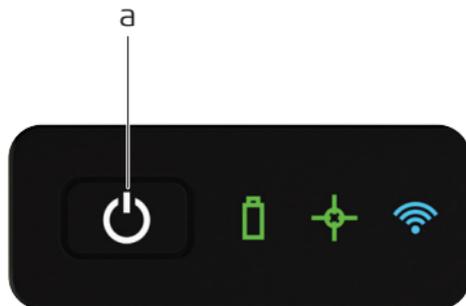
## GS05 components



27407\_001

- a LEDs and ON/OFF button
- b USB-C port
- c Antenna Reference Plane (ARP)
- d RP-SMA connector for external UHF or LTE antenna

## Keyboard GS05



27412.001

a ON/OFF button

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## Technical Data

## Environmental specifications

## Temperature

Type	Operating temperature [°C]	Storage temperature [°C]
GS05	With internal power: -30 to +55 With external power: -40 to +65	-40 to +80

## Protection against water, dust and sand

Type	Protection
GS05	IP66 & IP68, dust tight IEC 60529 MIL STD 810H 506.6 Proc II MIL STD 810H 512.6 Proc I MIL STD 810H 510.7 Proc II  Protected against continuous immersion in water Tested for 2 hours in 1.40 m depth

### **Pollution degree**

<b>Type</b>	<b>Pollution</b>
GS05	4 Electrical equipment for outdoor use

### **Humidity**

<b>Protection</b>
Up to 95% The effects of condensation are to be effectively counteracted by periodically drying out the instrument.

### **Altitude**

<b>Type</b>	<b>Protection</b>
GS05	Unrestricted

**Sound level**

Type	Value
All instruments	No sound emitted or no physical moving parts

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## 4

# Care and Transport

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**Care and Transport** Carry the product in its original container or carry the tripod with its legs splayed across your shoulder, to protect the product against shock and vibration.

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## 5

## Operation



The battery must be charged before using it for the first time.

### Turning on and off the instrument



27576\_001

## ON/OFF button

Button	Function
ON/OFF	 <b>If GS05 is off</b> Turns on GS05 when held for 2 s.  While the GS05 is booting, the Battery, Position and Connectivity LEDs light up sequentially one at a time.
	<hr/> <b>If GS05 is off</b> Battery status of GS05 is shown when the button is pressed for < 1 s.
	<hr/> <b>If GS05 is on</b> Turns off GS05 when held for 2 s.  The Battery, Position and Connectivity LEDs light up sequentially one at a time.
	<hr/> <b>If GS05 is on</b> Forces shutdown of GS05 when held for 12 s.

**Button****Function****If GS05 is on**

Press and hold button for 7 s. System configuration and network settings on the GNSS instrument are reseted.

After the reset, the GNSS instrument is rebooted.



The Position and Connectivity LEDs flash in orange and blue.



## 989238-1.0.0en

Original text (989238-1.0.0en)

Printed in Switzerland, © 2024 Leica Geosystems AG

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