

# Leica Zeno FLX100 Smart Antenna



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 from the myWorld web page before using the product.

myWorld@Leica Geosystems <https://myworld.leica-geosystems.com>

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Keep for future reference!

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## Intended use

- Measuring raw data and computing coordinates using carrier phase and code signal from GNSS satellites (GNSS systems).
  - Computing with software
  - Recording measurements
  - Recording GNSS and point related data
  - Carrying out measurement tasks using various GNSS measuring techniques
  - Data communication with external appliances
- 



The product must not be disposed with household waste.

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## For the AC/DC power supply and the battery charger:

### **WARNING**

#### **Unauthorised opening of the product**

Either of the following actions may cause you to receive an electric shock:

- Touching live components
- Using the product after incorrect attempts were made to carry out repairs.

#### **Precautions:**

- ▶ Do not open the product!
  - ▶ Only Leica Geosystems authorised service centres are entitled to repair these products.
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**Conformity to national regulations**

- FCC Part 15 (applicable in US)
  - Hereby, Leica Geosystems AG declares that the radio equipment type FLX100 smart antenna 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>.
-  Class 1 equipment according to European Directive 2014/53/EU (RED) can be placed on the market and be put into service without restrictions in any EEA member state.
- The conformity for countries with other national regulations not covered by the FCC part 15 or European Directive 2014/53/EU has to be approved prior to use and operation.

**Trademarks**

- *Bluetooth*<sup>®</sup> is a registered trademark of Bluetooth SIG, Inc.  
All other trademarks are the property of their respective owners.

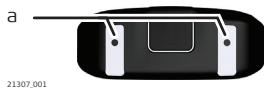
# 1.1 Instrument Components

## Description



- a Connection LED
- b Data link LED
- c Satellite LED
- d Battery LED indicator
- e Power button
- f USB type-C port

## Description



- a Holes for the screws to fix the pole adapter

## 2 Technical Data

### Power

Internal battery	3.8 V, 6120 mAh Type-C charging, support 1.44 A fast charge
Input voltage	5 V DC/2 A
Power consumption	1.8 W
Working time	Up to 10 hours (post processing) Up to 8 hours (RTK with GSM)
Charge time	Typically 6 hours

### Environmental specifications

Type	Operating temperature [°C]	Storage temperature [°C]
Instrument	-30 to +65	-40 to +80
External influences	Protection	
Water, dust and sand	IP67	
Humidity	Up to 100% (non-condensing)	

**External influences****Protection**

Shock resistance

Designed to endure to a 2 m pole drop and 1.2 m free drop on concrete floor with no damage

## 2.1

### Care and Transport

**Care and transport**

Carry the product in its original container to protect the product against shock and vibration.

## 3

## Operation



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

### Turning on/off the instrument

#### Turn on:

Press and hold the power button until the battery LED goes green and the device sounds a beep.

#### Turn off:

Press and hold the power button until the battery LED goes out and the device sounds a beep.



- a Power on/off button
- b Battery LED indicator

## 3.1

## Connect the Handheld to Receiver by Bluetooth

### Step-by-step

Follow these steps to connect the handheld to the instrument by Bluetooth.

1. Open the Bluetooth settings on your device.



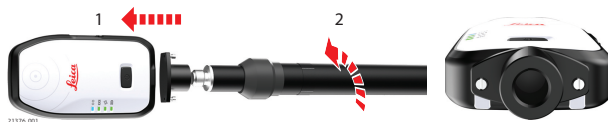
2. Search for your FLX100 smart antenna with its serial number.
3. Find target FLX100 smart antenna serial number.
4. Push **Connect**.


## 3.2

### Connect the Handheld to the Pole

#### Step-by-step

Follow these steps to connect the handheld to the pole.



1. Use a slot screwdriver to fix the pole adapter with both screws to the FLX100 smart antenna.  
 Make sure to fix the adapter in the correct orientation.
2. Screw the pole clockwise into the adapter.

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## **FCC warning statements:**

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The device has been evaluated to meet general RF exposure requirement.

## **IC warning statements:**

-English Warning Statement:

“This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.”

The digital apparatus complies with Canadian CAN ICES-3 (B)/NMB-3(B).

-French Warning Statement:

“Le présent appareil est conforme aux CNR d'Industrie 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, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radio électrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.”

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This device meets the IC radiation exposure limits for uncontrolled environments and RSS-102 of IC radio frequency (RF) exposure rules. The device has a very low RF energy level and has been evaluated (SAR) tested within the allowable range.

Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles d'exposition aux fréquences radio électriques (RF) CNR-102 de l'IC. Le dispositif fournit une très faible énergie RF et le débit d'absorption spécifique (DAS) a été évalué dans les limites autorisées.