Leica Zeno FLX100 plus Smart Antenna

Data sheet

Adapt to your needs

The Leica Zeno FLX100 plus smart antenna is an accurate, compact and flexible solution for everyone, allowing you the freedom to work how you want. Choose the setup that best suits your workflow, whether it's mounted on a survey pole for high-accuracy or used with the Universal Handheld Tray. The FLX100 plus can be paired with your smartphone or tablet running iOS, Android or Windows, giving you the flexibility to work your way.

Tilt your way

The Leica Zeno FLX100 plus smart antenna includes tilt compensation technology, enabling you to tilt the antenna in any direction and still measure accurate points. Effortlessly measure points on the move, reach previously inaccessible points, and stake out locations faster and more efficiently than ever before.

Your reliable companion

Built to withstand the harshest worksites, the FLX100 plus is designed for durability and reliability straight out of the box. Its rugged construction ensures it can handle the toughest conditions with ease, making it a trusted companion for demanding tasks. Additionally, Leica Geosystems offers comprehensive maintenance, service, and professional support, ensuring your device remains operational and performing at its best, no matter the challenges you face.

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GNSS TECHNOLOGY

Horizontal real-time accuracy	RTK (Multi-frequency): 2 cm + 1 ppm* SBAS (L1 only): ‹0.9 m* Navigated: 1.2 m*
Vertical real-time accuracy	RTK (Multi-frequency): 3 cm + 1 ppm*
Horizontal real-time tilt compensated accuracy:	Unlimited tilt Additional Hz uncertainty less than 1.8cm (less than 5mm+0.43mm/°) down to 30° tilt
Post-processing accuracy static mode	Horizontal: 2 cm + 1 ppm* Vertical: 3 cm + 1 ppm*
Satellite signal tracking	■ GPS (L1 C/A, L2C) ■ Glonass (L1OF, L2OF) ■ BeiDou (B1I, B2I) ■ Galileo (E1B/C, E5b) ■ QZSS (L1C/A, L2C) ■ SBAS: WAAS, EGNOS, MSAS, GAGAN (L1 C/A)
Number of channels	184 channels
Update rate	Up to 10 Hz (0.10 sec)
Supported operating systems	■ Android ■ iOS ■ Windows
Real-time protocols	RTCM 3.0, RTCM 3.1, RTCM 3.2, RTCM 3.3, RTCM MSM
Output protocols	NMEA via Zeno Connect
GNSS initialization	■ Cold Start: 24 sec ■ Reaquisition: 2 sec

User interface	On/Off key status indicator (LED): satellite tracking, corrections, Bluetooth® communication and battery power
Communication port	Bluetooth® 5.0

POWER MANAGEMENT

Battery	Internal (3.8 V / 6120 mAh)
Battery charging time	4 hours to full charge
Power	DC 5V/2A
Operating time	>20 hours

PHYSICAL SPECIFICATIONS

Weight and dimensions	319 g, 139 mm x 80.6 mm x 31 mm
Proof against water, sand and dust	IP67
Operating/Storage temperature range	■ Operating: –40 to 65 °C ■ Storage: –40 to 80 °C
Humidity	Rarely and slightly condensing. ISO 9022-12-04 (+65 °C, 92 %, 62 h)
Drop	1.2 m
Vibration	Withstands strong vibration. ISO 9022-36-05 (10-55 Hz / ±0.15 mm / 5 cycles)

ZENO MOBILE ONE	LEICA CSX8	ZENO CONNECT
Intuitive feature editing and attribute entry	Android 12	High accuracy GNSS in your own app
Advanced multi-collect and find functions available	8“ widescreen WUXGA, 1920x1200 resolution	Create and connect to RTK sources
Comprehensive coordinate system support and configuration	IP66 / IP68, 1.5 m drop resistant	Easily integrate web or native apps with WebSocket protocol
Link and synchronise data with Esri ArcGIS Online / Enterprise	Bluetooth 5.1, Wi-Fi 802.11 a/b/g/n/ac, WCDMA, LTE, 5G	Configure NMEA messages and active satellite constellations

Made for iPhone | iPad

Swiss Technology by Leica Geosystems

* Measurement precision under good to favourable conditions. Accuracy and reliability depend upon various factors including number of available satellites, geometry, proximity to base station, multipath effects, ionospheric conditions, etc

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Support of different iOS and Android versions cannot be guaranteed at all times as operating system updates are out of Leica Geosystems control. Leica Geosystems publishes a list of fully tested and verified operating system versions on the customer information portal myWorld.

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- when it has to be **right**

Leica Geosystems