ZORN INSTRUMENTS

Bluetooth

GPS | **GNSS**

ZFG D plus

All digital & wireless Light Weight Deflectometer (LWD)

according to technical standards
TP BF-StB Part B 8.3 & ASTM E-2835,
calibrated according to TP BF-StB Part B 8.4



Wireless LWD control using your mobile device

Details

- **Free app**
  Instrument control and report generation in one seamless process. Automatic calculation and display of results. Easy addition of extra info (photos, soil class, level, position, etc.).
- **Load device with 10 kg drop weight**
  210 mm, 1.140 mm, 15 kg
  (Width, height, total weight)
- **Base plate**
  300 mm, 15 kg
  (Diameter, weight)

1

- Wireless LWD device controller ZORN D plus, rechargeable battery (USB C)
- Connection between ZORN D plus and personal Android or iOS tablet/smartphone via Bluetooth Low Energy (from Android 5.1 and iOS 11.0)
- Designated Android tablet computer with preinstalled ZFG D plus 2025 app available as accessory
- Automated calculation of single deflections, deflection mean s, s/v ratio and E_{vd} modulus
- ZFG Dplus operation and test report generation in one go with the ZORN D plus 2025 app
- Measurement voice navigation (can be muted)
- Plausibility check for deflection and E_{vd} measurement results*
- GPS/GNSS receiver for determination of measurement position, integrated in ZFG D plus 2025 controller directly at the loading plate*

*(can be deactivated)

2

- Load device with 10 kg drop weight, fixed impact load 7.07 kN, measuring range Evd 15-70 MPa (MN/m²), net weight 15 Kg
- 300 mm base plate with acceleration sensor (MEMS), max. ground pressure 0.1 MPa (MN/m²), net weight 15 Kg
- Acceleration sensor in movable housing, ready for use with dynamic CBR and 150 mm base plate
- Ready for optional load device with 15 kg drop weight and 1.5 times impact load (10.605 kN); measuring range Evd 70-105 MPa (MN/m²)
- Ergonomic, triangular catch handle with slip-resistant surface coating
- All metal parts with corrosion protection for use at construction sites
- Sensor self-test (2G) and integrated calibration reminder

3

- ZORN D plus 2025 app
  - Make full use of data obtained during LWD measurements (E_{vd} modulus, single and mean deflection values, s/v relation, deflection curves)
  - Ad photos and text information on soil material, weather conditions, site characteristics and more
- ZORN FG-WebApp,
  - Single user license
  - Browser-based protocol software for evaluating, comparing and creating test reports for online and offline use on MS Windows, iOS and Linux computers



Mounting pin with sensor

Subject to change without prior notice. | Status: 04/2026

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Accessories (optional)

- Designated Android tablet computer
- Bluetooth printer