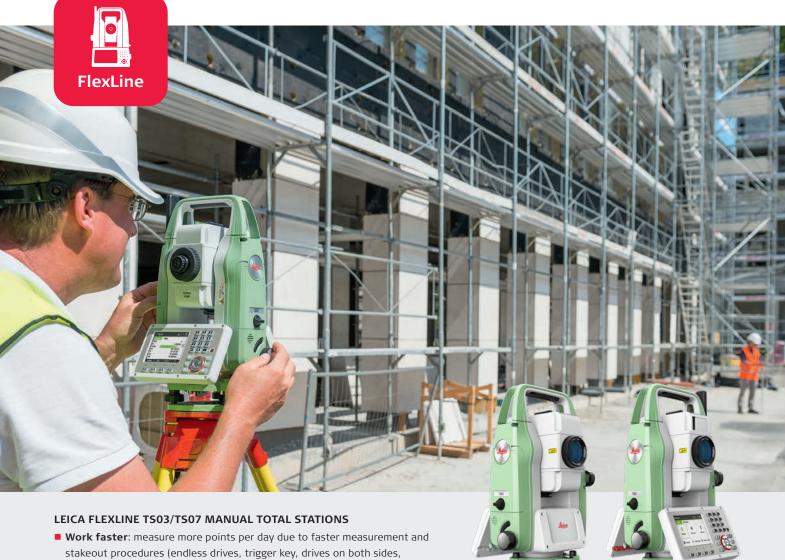
Leica FlexLine TS03/TS07 Manual Total Stations



- Work faster: measure more points per day due to faster measurement and stakeout procedures (endless drives, trigger key, drives on both sides, pinpoint EDM and more), supported by our comprehensive and user-friendly Leica FlexField software.
- **Use it trouble-free**: increase productivity and minimise downtime by relying on instruments that simply work and come with a global service and support network.
- Choose products that are built to last: FlexLine operates with the same high level of quality even after years of use under harsh conditions (like mud, dust, blowing rain, extreme heat and cold).
- Control your investment: reliability, speed and accuracy ensure a lower investment over the product lifetime and a higher resell value.
- Save time with AutoHeight: measure, read and set the instrument height automatically with this revolutionary feature in the FlexLine TS07 (optional). Errors are minimised and the setup process onsite is faster.

The Leica FlexLine TS03 and TS07 high-quality, manual total stations are based on a proven product concept that has been revolutionising the world of measurement and survey for nearly 200 years. The instruments are equipped with a comprehensive application-based software package - Leica FlexField software - that enables most survey and stakeout tasks to be carried out easily and efficiently. The new FlexLine manual total stations work reliably and deliver accurate results even in harsh environments.





Leica FlexLine TS03/TS07





Leica FlexLine TS03

Leica FlexLine TS07

| ANGULAR MEASUREMENT | | zered Hexame 1909 | zered riexzine 1507 |
|--------------------------------------|--|---------------------------------|---------------------------------------|
| Accuracy Hz and V | Absolute, continuous, diametrical ¹ | 2" / 3" / 5" | 1" / 2" / 3" / 5" / 7" |
| Accuracy 112 and v | Display resolution: 0.1" (0.1 mgon) Quadruple axis compensation | | |
| | Compensator setting accuracy²: 0.5" / 1"/ 1.5" / 2" | V | ~ |
| | Compensator range: +/- 4'Electronic level resolution: 2" | · | • |
| | Circular level sensitivity: 6` / 2 mm | | |
| DISTANCE MEASUREMENT | | | |
| Range | Prism (GPR1, GPH1P): 1.5 m to 3.500 mPrism GPR1 (Long Range mode) > 10.000 m | V | v |
| | Non-Prism / Any surface | | |
| | ■ R500³ | ✓ | ~ |
| | R1000 ⁴ | Х | • |
| | Single prism ■ Precise+ / Once: 1 mm + 1.5 ppm (typical 2.4 s) | | |
| Accuracy / | ■ Precise&Fast / Once&Fast: 2 mm + 1.5 ppm (typical 2 s) | V | V |
| Measurement time | Tracking / Continously: 3 mm + 1.5 ppm (typical < 0.15 s)Averaging: 1 mm + 1.5 ppm | · | · |
| | Long Range mode / > 4 km: 5 mm + 2 ppm (typical 2.5 s) | | |
| | Non-Prism / Any surface | | |
| | 0 m - 500 m: 2 mm + 2 ppm (typical 3 - 6 s) | V | V |
| | > 500 m: 4 mm + 2 ppm (typical 3 - 6 s) At 30 m: 7 mm x 10 mm | | |
| Laser dot size | ■ At 50 m: 8 mm x 20 mm | V | ✓ |
| | At 100 m: 16 mm x 25 mm | | |
| | Magnification: 30xResolving power: 3" | | |
| Telescope | Focusing range: 1.55 m / 5.08 ft to infinity | ✓ | ~ |
| | ■ Field of view: 1°30′ / 1.66 gon / 2.7 m at 100 m | | |
| GENERAL | | | |
| Display and keyboard | | 3.5" (inch), 320 x 240 px QVGA, | 3.5" (inch), 320 x 240 px QVGA, |
| Display and keyboard | | grayscale, 28 keys⁵ª | colour, touch, 28 keys⁵⁵ |
| | 2 nd keyboard | * | • |
| | Key illumination | X | ~ |
| Operation | ■ Endless drives for HZ & V ■ Trigger-Key: user definable with 2 functions | v | <i>v</i> |
| Dower management | Exchangeable Lithium-Ion battery ⁶ Operating time with GEB361 | to 20 h | us to 20 h |
| Power management | Operating time with GEB331 | up to 30 h up to 15 h | up to 30 h up to 15 h |
| | Battery charging time with | | |
| | GKL341 charger for GEB361 / GEB331GKL311 charger for GEB361 / GEB331 | 3 h 30 min / 3 h | 3 h 30 min / 3 h |
| | External supply voltage | 6 h 30 min / 3 h 30 min | 6 h 30 min / 3 h 30 min |
| | ■ Nominal voltage 13.0 V DC & 16 W max | V | ~ |
| | Internal memory: 2 GB Flash | _ | _ |
| Data storage | Memory card: SD card 1 GB or 8 GBUSB memory stick: 1 GB | V | ~ |
| D | ■ TI OMAP4430 1GHz Dual-core ARM® Cortex™ A9 MPCore™ | | |
| Processor | Operating system – Windows EC7 | <u> </u> | <u> </u> |
| Interfaces | RS232 ⁷ , USB device | <u> </u> | <u> </u> |
| | Bluetooth® ⁸ , WLAN ⁹ | <u>x</u> | <u> </u> |
| | Mobile Data sidecover: LTE-Modem for internet access Working range: 5 m to 150 m | x | • |
| Guide Light (EGL) | Position accuracy: 5 cm at 100 m | × | (R1000) |
| | ■ Wavelength red /orange: 617 nm / 593 nm | | (K1000) |
| Laser plummet | Accuracy Plumb line deviation: 1.5 mm at 1.5 m instrument height | 4 | V |
| (Laserclass 2) | Diameter of laser point: 2.5 mm at 1.5 m instrument height | • | • |
| AutoHeight module for | Accuracy | | |
| automatic instrument height | Distance accuracy: 1.0 mm (1 Sigma) | × | • |
| measurement (Laserclass 2) Weight | ■ Distance range: 0.7 m to 2.7 m | 4.3 kg | 4.3 - 4.5 kg |
| Weight | ■ Working temperature range: -20°C to +50°C | ₹7 C.F | Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z |
| Environmental | ■ Arctic version: -35°C to +50°C | х | • |
| specifications ¹⁰ | Dust / Water (IEC 60529) / Humidity: IP66 / 95%, non-condensing | V | ~ |
| | Military Standard 810G, Method 506.5 | V | V |
| | | | |

- Legend:
 1. 1" (0.3 mgon), 2" (0.6 mgon), 3" (1 mgon), 5" (1.5 mgon), 7" (2 mgon)
 2. Angular accuracy / Compensator setting accuracy: 1" /0.5" (0.2 mgon), 2"/0.5" (0.2 mgon), 3"/1.0" (0.3 mgon), 5"/1.5" (0.5 mgon), 7"/2.0" (0.7 mgon)
 3. R500: Kodak gray 90% reflective (1.5 m to >500 m), Kodak gray 18% reflective (1.5 m to >200 m) 4. R1000: Kodak gray 90% reflective (1.5 m to >500 m) 5. (a) Face I standard, (b) Face I standard, face II optional

Laser radiation, avoid direct eye exposure.

Class 3R laser product in accordance with IEC 60825-1:2014.

- Distance/angle measurement every 30 seconds
 FIN Lemo-0 for power, communication and data transfer
 For communication and data transfer
 For internet access, communication and data transfer,
 WLAN range up to 200 m
 Storage temperature: -40°C to +70°C



Integrate with LOC8 - Lock & Locate

For more information visit: leica-geosystems.com/LOC8

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✓ = Included • = Optional X = Not available