Leica FlexLine TS03
Manual Total Station

FlexLine

LEICA FLEXLINE TS03 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.

The Leica FlexLine TS03 high-quality, manual total station is based on a proven product concept that has been revolutionising the world of measurement and survey for nearly 200 years. The instrument is 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

Leica FlexLine TS03

ANGULAR MEASUREMENT		
Accuracy Hz and V	Absolute, continuous, diametrical[1]	2'' / 3'' / 5''
	■ Display resolution: 0.1'' (0.1 mgon) ■ Quadruple axis compensation ■ Compensator setting accuracy[2]: 0.5'' / 1''/ 1.5'' / 2'' ■ 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 m ■ Prism GPR1 (Long Range mode) › 10.000 m	✔
	Non-Prism / Any surface ■ R500[3]	✔
Accuracy / Measurement time	Single prism ■ 1 mm + 1.5 ppm (typical 1 - 2 s)	✔
	Non-Prism / Any surface ■ 0 m - 500 m: 2 mm + 2 ppm (typical 3 - 6 s)	✔
	Display resolution: 0.1 mm	✔
Laser dot size	■ At 30 m: 7 mm x 10 mm ■ At 50 m: 8 mm x 20 mm ■ At 100 m: 16 mm x 25 mm	✔
Telescope	■ Magnification: 30x ■ Resolving power: 3'' ■ 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, grayscale, 28 keys
	2nd keyboard	✗
Operation	■ Endless drives for HZ & V ■ Trigger-Key: user definable with 2 functions	✔
Power management	Exchangeable Lithium-Ion battery[6] ■ Operating time with GEB361 ■ Operating time with GEB331	 up to 30 h up to 15 h
	External supply voltage ■ Nominal voltage 13.0 V DC & 16 W max	✔
Data storage	■ Internal memory: 2 GB Flash ■ Memory card: SD card 1 GB or 8 GB ■ USB memory stick: 1 GB	✔
Processor	■ TI OMAP4430 1GHz Dual-core ARM® Cortex™ A9 MPCore™ ■ Operating system – Windows EC7	✔
Interfaces	RS232[7], USB device	✔
Laser plummet (Laserclass 2)	Accuracy ■ Plumb line deviation: 1.5 mm at 1.5 m instrument height ■ Diameter of laser point: 2.5 mm at 1.5 m instrument height	✔
Weight		4.3 kg
Environmental specifications[6]	■ Working temperature range: –20°C to +50°C ■ Dust / Water (IEC 60529) / Humidity: IP66 / 95%, non-condensing ■ Military Standard 810G, Method 506.5	✔

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. Distance/angle measurement every 30 seconds
5. 5 PIN Lemo-0 for power, communication and data transfer
6. Storage temperature: –40°C to +70°C

✔ = Included • = Optional ✗ = Not available

Laser radiation, avoid direct eye exposure.
Class 3R laser product in accordance with IEC 60825-1:2014.

Leica Geosystems AG
Heinrich-Wild-Strasse
9435 Heerbrugg, Switzerland
+41 71 727 31 31

- when it has to be **right**

Leica Geosystems