Leica FlexLine TS03/TS07/TS10 Manual Total Stations





The new Leica FlexLine TS03, TS07 and TS10 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 easy-to-use and familiar Leica FlexField software (TS03/TS07) helps you to easily and efficiently carry out surveying and stakeout tasks. The FlexLine TS10 is equipped with Leica Captivate field software, enabling you to tie into the modern 3D dataflow – including enhanced linework and coding. The new Leica FlexLine manual total stations work reliably and deliver accurate results even in harsh environments.

LEICA FLEXLINE TS03/TS07/TS10 MANUAL TOTAL STATIONS

- **Work faster**: measure more points per day due to faster measurement and stakeout procedures (new endless drives, trigger key, drives on both sides and more), supported by our easy-to-use and familiar Leica Geosystems 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**: even after years of use under harsh conditions (like mud, dust, blowing rain, extreme heat and cold), FlexLine total stations still operate with the same high level of accuracy and reliability.
- **Save time with AutoHeight:** this revolutionary feature enables the manual total stations to automatically measure, read and set your instrument's height. This way errors are minimised and the setup process onsite is faster.
- **Control your investment**: reliability, speed and durability ensure a lower investment over the product lifetime.

Leica FlexLine TS03/TS07/TS10


Leica FlexLine TS03


Leica FlexLine TS07


Leica FlexLine TS10

ANGULAR MEASUREMENT				
Accuracy Hz and V	Absolute, continuous, diametrical[1]	2'' / 3'' / 5''	1'' / 2'' / 3'' / 5'' / 7''	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: +/- 3.78' (+/- 0.07 gon) ■ 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] ■ R1000[4]	✔ ✗	✔ •	✔ •
Accuracy / Measurement time	Single prism ■ Precise+ / Once: 1 mm + 1.5 ppm (typical 2.4 s) ■ Precise&Fast / Once&Fast: 2 mm + 1.5 ppm (typical 2 s) ■ 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) ■ › 500 m: 4 mm + 2 ppm (typical 3 - 6 s)	✔	✔	✔
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[5a]	3.5" (inch), 320 x 240 px QVGA, colour, touch, 28 keys[5b]	5" (inch), 800 x 480 pixels WVGA, colour, touch, 25 keys[5b], (optional[5c]: 37 keys with function keys)
	2nd keyboard	✗	•	•
	Key illumination	✗	✔	✔
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	 up to 30 h up to 15 h	 up to 18 h up to 9 h
	Battery charging time with ■ GKL341 charger for GEB361 / GEB331 ■ GKL311 charger for GEB361 / GEB331	 3 h 30 min / 3 h 6 h 30 min / 3 h 30 min	 3 h 30 min / 3 h 6 h 30 min / 3 h 30 min	 3 h 30 min / 3 h 6 h 30 min / 3 h 30 min
	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	✔	✔	✔
	Bluetooth®[8], WLAN[9]	✗	✔	✔
	Mobile Data sidecover: LTE-Modem for internet access	✗	•	•
Guide Light (EGL)	■ Working range: 5 m to 150 m ■ Position accuracy: 5 cm at 100 m ■ Wavelength red /orange: 617 nm / 593 nm	✗	✔ (R1000)	✔ (R1000)
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	✔	✔	✔
AutoHeight module for automatic instrument height measurement (Laserclass 2)	Accuracy ■ Distance accuracy: 1.0 mm @ 1 m ■ Distance range: 0.7 m to 2.7 m	✗	•	✔
Weight		4.3 kg	4.3 - 4.5 kg	4.4 - 4.9 kg
Environmental specifications[10]	■ Working temperature range: –20°C to +50°C ■ Arctic version: –35°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. R1000: Kodak gray 90% reflective (1.5 m to ›1000 m), Kodak gray 18% reflective (1.5 m to ›500 m)
5. (a) Face I standard, (b) Face I standard, face II optional, (c) face I optional, face II optional
6. Distance/angle measurement every 30 seconds
7. 5 PIN Lemo-0 for power, communication and data transfer
8. For communication and data transfer
9. For internet access, communication and data transfer, WLAN range up to 200 m
10. 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.

The Bluetooth® trademarks are owned by Bluetooth SIG, Inc. Windows is a registered trademark of Microsoft Corporation. Other trademarks and trade names are those of their respective owners.

Copyright Leica Geosystems AG, 9435 Heerbrugg, Switzerland. All rights reserved. Printed in Switzerland – 2018. Leica Geosystems AG is part of Hexagon AB. 876709en –10.18

Distribuidor autorizado
ACRE

- when it has to be right

Leica Geosystems

SEDES

EUROPA

ESPAÑA SEDE CENTRAL
Avenida del Oro s/n
Autovía A-42. km. 33
Salida Illescas
Illescas (Toledo)

CASTILLA Y LEÓN
Calle del Cromo 16
Valladolid

PORTUGAL
Rua César de Oliveira
N° 2D piso 2 sala 1
Edificio Continental Telheiras
Lisboa

AMÉRICA

CANADÁ
36 Toronto St. #1070
Toronto, Ontario

EE.UU
3750 NW 87th Ave,
Suit # 700
Miami, FL 33178

MÉXICO
Hacienda Vanegas N°. 58
Col. Mansiones del Valle
Santiago de Querétaro

PANAMÁ
Calle 58 Este
Ph Office One
Oficina 1103
Ciudad de Panamá

COLOMBIA
Calle 101B # 45A - 23
Bogotá D.C.

PERÚ
Calle Rio de la Plata 167
Oficina 102
San Isidro, Lima

www.grupoacre.lat