Leica FlexLine TS10 **Manual Total Station**



- stakeout procedures, supported by the revolutionary Leica Captivate field software. The software is made to make your work easier and more enjoyable.
- 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 still operates with the same high level of quality.
- Control your investment: reliability, speed and accuracy ensure a lower investment over the product lifetime and a higher resell value.
- Save time with AutoHeight: this revolutionary feature enables the FlexLine TS10 manual total station to automatically measure, read and set the instrument height. Errors are minimised and the setup process onsite is faster.

The Leica FlexLine TS10 manual total station combines user-friendly, ergonomic design with high-end reliability under harsh conditions. It enables you to tie into the modern 3D dataflow, including enhanced linework and coding. The TS10 offers mobile data device integration as an option. The larger, highly visible colour- and touchscreen helps you to complete your surveying tasks with the highest speed and accuracy. The new FlexLine generation of manual total stations relies on a proven product concept that has been revolutionising the world of measurement and survey for nearly 200 years.













Leica FlexLine TS10

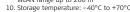


Leica FlexLine TS10

ANGULAR MEASUREMENT		
Accuracy Hz and V	Absolute, continuous, diametrical ¹	1" / 2" / 3" / 5"
	 Display resolution: 0.1" (0.1 mgon) Quadruple axis compensation Compensator setting accuracy²: 0.5" / 1"/ 1.5" Compensator range: +/- 4' Electronic level resolution: 2" Circular level sensitivity: 6` / 2 mm 	v
DISTANCE MEASUREMENT		
Range	Prism (GPR1, GPH1P): 1.5 m to 3.500 mPrism GPR1 (Long Range mode) > 10.000 m	V
	Non-Prism / Any surface ■ R500³ ■ R1000⁴	· ·
Accuracy / Measurement time	Single prism ■ Precise+ / Once: 1 mm + 1.5 ppm (typical 2.4 s) ■ Once&Fast: 2 mm + 1.5 ppm (typical 2 s) ■ 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 	V
GENERAL		
Display and keyboard	5" (inch), 800 x 480 pixels WVGA, colour and touch ■ 25 keys ^{5a} ■ 37 keys with function keys ^{5b}	· ·
	2 nd keyboard	•
	Key illumination	
Operation	 Endless drives for HZ & V Trigger-Key: user definable with 2 functions 	V
Power management	Exchangeable Lithium-lon battery ⁶ Operating time with GEB361 Operating time with GEB331	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
	External supply voltage ■ Nominal voltage 13.0 V DC & 16 W max	<i>V</i>
Data storage	 Internal memory: 2 GB Flash Memory card: SD card 1 GB or 8 GB USB memory stick: 1 GB 	V
Processor	 ■ TI OMAP4430 1GHz Dual-core ARM® Cortex™ A9 MPCore™ ■ Operating system - Windows EC7 	v
Interfaces	RS232 ⁷ , USB device	<i>V</i>
	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)
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 Sigma) Distance range: 0.7 m to 2.7 m	·
Weight		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	V

- Legend:
 1. 1" (0.3 mgon), 2" (0.6 mgon), 3" (1 mgon), 5" (1.5 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)
 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, face II optional, (b) face I optional, face II optional







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. 876733en – 01.19

Leica Geosystems AG

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



✓ = Included • = Optional X = Not available