Leica FlexLine TS10 Manual Total Station



LEICA FLEXLINE TS10 MANUAL TOTAL STATION

- Work faster: measure more points per day due to faster measurements and 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-geosystems.com

- when it has to be right



Leica FlexLine TS10



Leica FlexLine TS10

		Leica FlexLine TS10
	Absolute, continuous, diametrical ¹	1'' / 2'' / 3'' / 5''
Accuracy Hz and V	 Display resolution: 0.1" (0.1 mgon) Quadruple axis compensation 	1 / 2 / 5 / 5
	 Compensator setting accuracy²: 0.5" / 1"/ 1.5" Compensator range: +/- 4' Electronic level resolution: 2" 	\checkmark
	 Electronic level resolution: 2" Circular level sensitivity: 6' / 2 mm 	
ISTANCE MEASUREMENT		
Range	 Prism (GPR1, GPH1P): 0.9 m to 3,500 m Prism GPR1 (Long Range mode) > 10,000 m 	v
	Non-Prism / Any surface R500 ³	~
	■ R1000 ⁴ Single prism ¹²	•
	Precise+ / Once: 1 mm + 1.5 ppm (typical 2.4 s)	
Accuracy / Measurement time	 Once&Fast: 2 mm + 1.5 ppm (typical 2 s) Continously: 3 mm + 1.5 ppm (typical < 0.15 s) 	V
	 Averaging: 1 mm + 1.5 ppm 	
	 Long Range mode / > 4 km: 5 mm + 2 ppm (typical 2.5 s) 	
	Non-Prism / Any surface ¹²	
	 0 m - 500 m: 2 mm + 2 ppm (typical 2.4 s⁵) > 500 m: 4 mm + 2 ppm 	~
	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: 30x Resolving power: 3" 	
Telescope	 Focusing range: 1.55 m / 5.08 ft to infinity 	V
	Field of view: 1°30' / 1.66 gon / 2.7 m at 100 m	
ENERAL		
Display and keyboard	5" (inch), 800 x 480 pixels WVGA, colour and touch	
	 25 keys^{6a} 37 keys with function keys^{6b} 	•
	2 nd keyboard	•
	Key illumination	~
	Endless drives for HZ & V	
Operation	Trigger-Key: user definable with 2 functions	V
	Exchangeable Lithium-Ion battery ⁷	
Power management	 Operating time with GEB364 Operating time with GEB334 	up to 26 h up to 13 h
	Battery charging time with	up to 15 fi
	GKL341 charger for GEB364 / GEB334	3 h 30 min / 3 h
	GKL311 charger for GEB364 / GEB334	6 h 30 min / 3 h 30 min
	External supply voltage Nominal voltage 13.0 V DC & 16 W max 	V
	 Internal memory: 4 GB Flash 	
Data storage	Memory card: SD card 1 GB or 8 GB	V
	USB memory stick: 1 GB	
ocessor	 ■ TI OMAP4430 1GHz Dual-core ARM® Cortex™ A9 MPCore™ ■ Operating system - Windows EC7 	
terfaces	RS232 ⁸ , USB device	V
	Bluetooth® ⁹ , WLAN ¹⁰	~
	Mobile Data sidecover: LTE-Modem for internet access	•
	Working range: 5 m to 150 m	~
Guide Light (EGL)	 Position accuracy: 5 cm at 100 m Wavelength red /orange: 617 nm / 593 nm 	(R1000)
	Accuracy	
aser plummet aserclass 2)	 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 	V
utoHeight module for automatic	Accuracy	
istrument height measurement .aserclass 2)	 Distance accuracy: 1.0 mm (1 Sigma) Distance range: 0.7 m to 2.7 m 	~
eight		4.4 - 4.9 kg
	Working temperature range: -20°C to +50°C ¹¹	· · · · · · · · · · · · · · · · · · ·
nvironmental	Arctic version: -35°C to +50°C	•
specifications	 Dust / Water (IEC 60529) / Humidity: IP66 / 95%, non-condensing Military Standard 810C, Mathed 506 5 	
	 Military Standard 810G, Method 506.5 5 morapiyal CMOS sonsor 	· · · · · · · · · · · · · · · · · · ·
naging	 5 megapixel CMOS sensor Overview camera with field of view 19.4° 	•
DC8	Tracking and theft deterrence device	•

Legend: 1. 1" (0.3 mgon), 2" (0.6 mgon), 3" (1 mgon), 5" (1.5 mgon), Standard deviation ISO 17123-3 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 (0.9 m to >500 m), Kodak gray 18% reflective (0.9 m to >200 m) 4. R1000: Kodak gray 90% reflective (0.9 m to >1000 m), Kodak gray 18% reflective (0.9 m to >500 m) 5. Up to 50m, max. measurement time 15s

(a) Face I standard, face II optional, (b) face I optional, face II optional
 Continuous angle measurement, new battery
 S PIN 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
 Standard deviation ISO 17123-4

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 Leia Ceosystems AG, 9435 Heerbrugg, Switzerland. All rights reserved. Printed in Switzerland - 2022. Leica Geosystems AG is part of Hexagon AB. 876733en -11.24

Leica Geosystems AG Heinrich-Wild-Strasse 9435 Heerbrugg, Switzerland

+41 71 727 31 31

- when it has to be **right**

