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.

- 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.



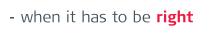
leica-geosystems.com













Leica FlexLine TS03/TS07/TS10







Leica FlexLine TS03

Leica FlexLine TS07

Leica FlexLine TS10

ANGULAR MEASUREMEN	NT			
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 accuracy²: 0.5" / 1"/ 1.5" / 2" Compensator range: +/- 4' Electronic level resolution: 2" Circular level sensitivity: 6' / 2 mm 	V	V	V
DISTANCE MEASUREMEN	NT			
Range	■ Prism (GPR1, GPH1P): 1.5 m to 3.500 m ■ Prism GPR1 (Long Range mode) > 10.000 m	v	V	V
	Non-Prism / Any surface R500 ³ R1000 ⁴	У Х	·	·
Accuracy / Measurement time	Single prism Precise+ / Once: 1 mm + 1.5 ppm (typical 2.4 s) PreciseFast / 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)	,	~	V
	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 	v	~	v
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				

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)
	2 nd keyboard	X	•	•
	Key illumination	X	v	v
Operation	■ Endless drives for HZ & V ■ Trigger-Key: user definable with 2 functions	✓	~	V
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	v	~	v
Data storage	 Internal memory: 2 GB Flash Memory card: SD card 1 GB or 8 GB USB memory stick: 1 GB 	v	~	v
Processor	 ■ TI OMAP4430 1GHz Dual-core ARM® Cortex™ A9 MPCore™ ■ Operating system – Windows EC7 	~	~	v
Interfaces	RS232 ⁷ , USB device	V	~	~
	Bluetooth®8, WLAN9	X	V	~
	Mobile Data sidecover: LTE-Modem for internet access	X	•	•
Guide Light (EGL)	 Working range: 5 m to 150 m Position accuracy: 5 cm at 100 m Wavelength red /orange: 617 nm / 593 nm 	Х	(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	v	~	~
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	X	•	V
Weight		4.3 kg	4.3 - 4.5 kg	4.4 - 4.9 kg
	■ Working temperature range: -20°C to +50°C	V	v	V
Environmental	■ Arctic version: -35°C to +50°C	X	•	•
specifications ¹⁰	Dust / Water (IEC 60529) / Humidity: IP66 / 95%, non-condensing	V	✓	V
	 Military Standard 810G, Method 506.5 	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 >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 III optional

- Laser radiation, avoid direct eye exposure.

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

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Leica Geosystems AG

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- when it has to be right



 Distance/angle measurement every 30 seconds
 5 PIN Lemo-0 for power, communication and data transfer
 For communication and data transfer
 For internet access, communication and data transfer
 WIAN range up to 200 m
 Storage temperature: -40°C to +70°C ✓ = Included • = Optional X = Not available



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