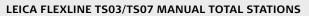


ElexLine

Leica FlexLine TS03/TS07 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.
- Save time with AutoHeight: measure, read and set the instrument height automatically with this revolutionary feature in the FlexLine TS07 (optional). Errors are minimised and the setup process onsite is faster.

The Leica FlexLine TS03 and TS07 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 instruments are 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.



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- when it has to be **right**



Leica FlexLine TS03/TS07





Leica FlexLine TS07

ANGULAR MEASUREME	NT		
Accuracy Hz and V	Absolute, continuous, diametrical ¹	2'' / 3'' / 5''	1'' / 2'' / 3'' / 5'' / 7"
	 Display resolution: 0.1" (0.1 mgon) Quadruple axis compensation Compensator setting accuracy²: 0.5" / 1"/ 1.5" / 2" Compensator range: +/- 3.78' (+/- 0.07 gon) Electronic level resolution: 2" Circular level sensitivity: 6` / 2 mm 	v	v
DISTANCE MEASUREME	INT		
Range	 Prism (GPR1, GPH1P): 1.5 m to 3.500 m Prism GPR1 (Long Range mode) > 10.000 m 	v	
	Non-Prism / Any surface R500 ³ R1000 ⁴	×	۲ •
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)	V	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)	V	V
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			

Display and keyboard		3.5" (inch), 320 x 240 px QVGA, grayscale, 28 keys⁵ª	3.5" (inch), 320 x 240 px QVGA, colour, touch, 28 keys⁵⁵
	2 nd keyboard	×	٠
	Key illumination	×	 ✓
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
	 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
	External supply voltage Nominal voltage 13.0 V DC & 16 W max	v	~
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 	V	v
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 	x	(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
	Working temperature range: -20°C to +50°C	v -	 ✓
Environmental	Arctic version: -35°C to +50°C	×	V.
specifications ¹⁰	 Dust / Water (IEC 60529) / Humidity: IP66 / 95%, non-condensing Military Standard 810G, Method 506.5 	v 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 >500 m), Kodak gray 18% reflective (1.5 m to >500 m) 5. (a) Face I standard, (b) Face I standard, face II optional

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, WLAN range up to 200 m
 Storage temperature: -40°C to +70°C



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

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✓ = Included • = Optional × = Not available