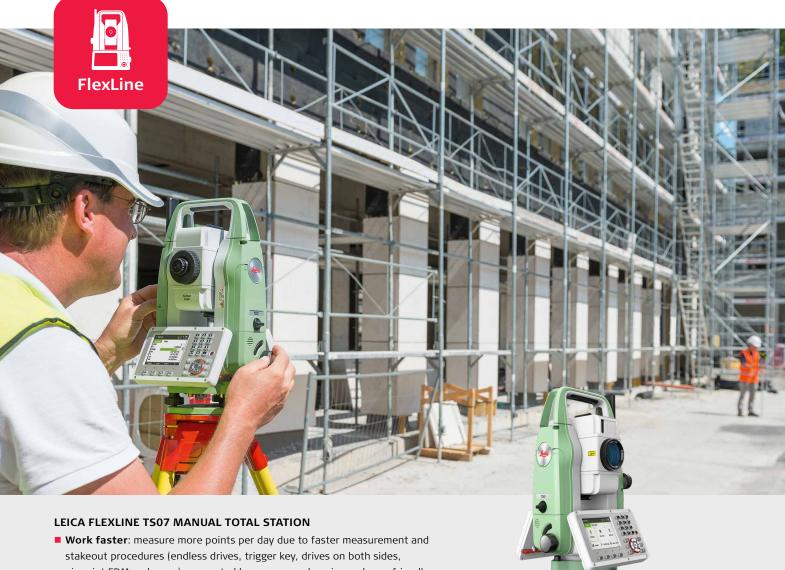
Leica FlexLine TS07 **Manual Total Station**



- 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 (optional). Errors are minimised and the setup process onsite is faster.

The Leica FlexLine TS07 high-quality, manual total station is based on a proven product concept that has been revolutionising the world of measurement and survey for nearly 200 years. The instrument is 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.













Leica FlexLine TS07



Leica FlexLine TS07

ANGULAR MEASUREMENT		
Accuracy Hz and V	Absolute, continuous, diametrical ¹	1" / 2" / 3" / 5" / 7"
	 Display resolution: 0.1" (0.1 mgon) Quadruple dual axis compensation with Hz collimation and V index correction Compensator setting accuracy²: 0.5" / 1"/ 1.5" / 2" Compensator range: +/- 4' Electronic level resolution: 2" Circular level sensitivity: 6' / 2 mm 	,
DISTANCE 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 ■ R500³ ■ R1000 ⁴	· ·
Accuracy / Measurement time	Single prism 1 mm + 1.5 ppm (typical 1 - 2 s)	<u> </u>
	Non-Prism / Any surface • 0 m - 500 m: 2 mm + 2 ppm (typical 2.4 s ⁵) • > 500 m: 4 mm + 2 ppm	v
	Display resolution: 0.1 mm	<i>V</i>
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 	<i>V</i>
Telescope	 Magnification: 30x Resolving power: 3" Focusing range: 1.5 m / 4.92 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, colour, touch, 28 keys ^o
	2 nd keyboard	•
	Key illumination	V
Operation	 Endless drives for HZ & V Trigger-Key: user definable with 2 functions 	V
Power management	Exchangeable Lithium-Ion battery ⁷ Operating time with GEB361 Operating time with GEB331	up to 30 h up to 15 h
	External supply voltage ■ Nominal voltage 13.0 V DC & 16 W max	V
Data storage	 Internal memory: 2 GB Flash / 4 GB 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 ⁸ , USB device	V
	Bluetooth®, WLAN ¹⁰ Mobile Data sidesever LTE Modern for internet assess	•
Guide Light (EGL)	Mobile Data sidecover: LTE-Modem for internet access Working range: 5 m to 150 m Position accuracy: 5 cm at 100 m	(R1000)
Laser plummet (Laserclass 2)	Wavelength red /orange: 617 nm / 593 nm Accuracy Plumb line deviation: 1.5 mm at 1.5 m instrument height Diameter of large point: 2.5 mm at 1.5 m instrument height	· · · · · · · · · · · · · · · · · · ·
AutoHeight module for automatic instrument height measurement (Laserclass 2)	 Diameter of laser point: 2.5 mm at 1.5 m instrument height Accuracy Distance accuracy: 1.0 mm (1 Sigma) Distance range: 0.7 m to 2.7 m 	•
Weight		4.3 - 4.5 kg
	 Working temperature range: -20°C to +50°C Arctic version: -35°C to +50°C 	•
Environmental specifications ¹¹	 Dust / Water (IEC 60529) / Humidity: IP66 / 95%, non-condensing 	, V
LOC8	Military Standard 810G, Method 506.5 Tracking and theft deterrence device	•

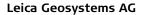
- Legend:
 1. 1" (0.3 mgon), 2" (0.6 mgon), 3" (1 mgon), 5" (1.5 mgon), 7" (2 mgon)
 2. Angular accuracy / Compensator setting accuracy: 1" (0.5" (0.2 mgon), 2"/0.5" (0.2 mgon), 3"/1.0" (0.3 mgon), 5"/1.5" (10.5 mgon), 7"/2.0" (0.7 mgon)
 3. R500: Kodak gray 90% reflective (1.5 m to >500 m), Kodak gray 18% reflective (1.5 m to >500 m)
 4. R1000: Kodak gray 90% reflective (1.5 m to >1000 m), Kodak gray 18% reflective (1.5 m to >500 m)
 5. Up to 50 m, max. measurement time 15 s
 6. Face I standard, 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. Leica Geosystems AG is part of Hexagon AB. 02.21

- 7. Distance/angle measurement every 30 seconds
 8. 5 PIN Lemo-0 for power, communication and data transfer
 9. For communication and data transfer
 10. For internet access, communication and data transfer,
 WLAN range up to 200 m
 11. Storage temperature: -40°C to +70°C

✓ = Included • = Optional



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

