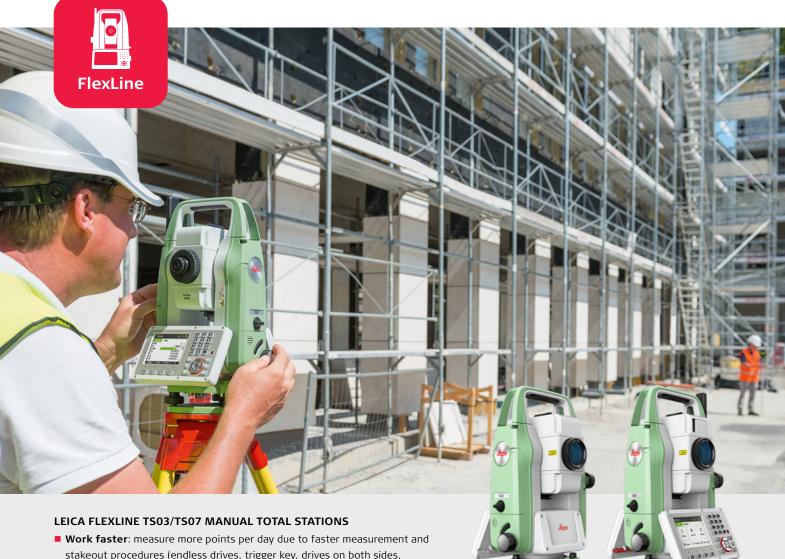
## Leica FlexLine TS03/TS07 **Manual Total Stations**



- 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.













## Leica FlexLine TS03/TS07





Leica FlexLine TS03

Leica FlexLine TS07

		Leica FlexLille 1503	Leica FlexLine 1507
ANGULAR MEASUREMENT		20 / 20 / 50	
Accuracy Hz and V	Absolute, continuous, diametrical <sup>1</sup>	2" / 3" / 5"	1" / 2" / 3" / 5" / 7"
	<ul> <li>Display resolution: 0.1" (0.1 mgon)</li> <li>Quadruple axis compensation</li> <li>Compensator setting accuracy<sup>2</sup>: 0.5" / 1"/ 1.5" / 2"</li> <li>Compensator range: +/- 3.78' (+/- 0.07 gon)</li> <li>Electronic level resolution: 2"</li> <li>Circular level sensitivity: 6' / 2 mm</li> </ul>	V	V
DISTANCE MEASUREMENT			
Range	■ Prism (GPR1, GPH1P): 1.5 m to 3.500 m ■ Prism GPR1 (Long Range mode) > 10.000 m	·	V
	Non-Prism / Any surface ■ R500³ ■ R1000 <sup>4</sup>	×	·
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	<b>,</b>
	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	<ul> <li>At 30 m: 7 mm x 10 mm</li> <li>At 50 m: 8 mm x 20 mm</li> <li>At 100 m: 16 mm x 25 mm</li> </ul>	V	~
Telescope	<ul> <li>Magnification: 30x</li> <li>Resolving power: 3"</li> <li>Focusing range: 1.55 m / 5.08 ft to infinity</li> <li>Field of view: 1°30' / 1.66 gon / 2.7 m at 100 m</li> </ul>	~	~
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 keys <sup>sb</sup>
	2 <sup>nd</sup> keyboard	×	•
	Key illumination	X	<u> </u>
Operation	■ Endless drives for HZ & V ■ Trigger-Key: user definable with 2 functions	<b>v</b>	<b>'</b>
Power management	Exchangeable Lithium-Ion battery <sup>6</sup> 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	<b>'</b>
Data storage	<ul> <li>Internal memory: 2 GB Flash</li> <li>Memory card: SD card 1 GB or 8 GB</li> <li>USB memory stick: 1 GB</li> </ul>	V	~
Processor	■ TI OMAP4430 1GHz Dual-core ARM® Cortex™ A9 MPCore™ ■ Operating system – Windows EC7	~	<b>v</b>
Interfaces	RS232 <sup>7</sup> , USB device	<b>V</b>	<b>V</b>
	Bluetooth® <sup>8</sup> , WLAN <sup>9</sup>	X	V
	Mobile Data sidecover: LTE-Modem for internet access	X	•
Guide Light (EGL)	<ul> <li>Working range: 5 m to 150 m</li> <li>Position accuracy: 5 cm at 100 m</li> <li>Wavelength red /orange: 617 nm / 593 nm</li> </ul>	×	(R1000)
Laser plummet	- Wavelength red /orange. 017 mm / 393 mm		
(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	~
	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 Accuracy	x	•
(Laserclass 2) AutoHeight module for automatic instrument height	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 Accuracy Distance accuracy: 1.0 mm @ 1 m		

- 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) 5. (a) Face I standard, (b) Face I standard, face II optional

- Distance/angle measurement every 30 seconds
   FIN 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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non-condensing

Military Standard 810G, Method 506.5

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✓ = Included • = Optional X = Not available