Leica FlexLine TS03 **Manual Total Station**



- 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.

The Leica FlexLine TS03 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.













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ANGULAR MEASUREMEN	T .	
Accuracy Hz and V	Absolute, continuous, diametrical 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 	•
ISTANCE MEASUREMEN	Т	
Range	Prism (GPR1, GPH1P): 1.5 m to 3.500 mPrism GPR1 (Long Range mode) > 10.000 m	<u>, </u>
	Non-Prism / Any surface ■ R500³	~
Accuracy / Measurement time	Single prism I nm + 1.5 ppm (typical 1 - 2 s)	v
	Non-Prism / Any surface ■ 0 m - 500 m: 2 mm + 2 ppm (typical 3 - 6 s)	V
	Display resolution: 0.1 mm	~
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
[elescope	 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 	~
GENERAL		
Display and keyboard		3.5" (inch), 320 x 240 px QVGA, grayscale, 28 keys
	2 nd keyboard	*
Operation	■ Endless drives for HZ & V ■ Trigger-Key: user definable with 2 functions	~
Power management	Exchangeable Lithium-lon battery* 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	~
Data storage	 Internal memory: 2 GB Flash Memory card: 5D 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 	~
nterfaces	RS232 ⁷ , USB device	~
aser 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	~
Veight		4.3 kg
Environmental specifications	 Working temperature range: -20°C to +50°C Dust / Water (IEC 60529) / Humidity: IP66 / 95%, non-condensing 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. Distance/angle measurement every 30 seconds

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

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5. 5 PIN Lemo-0 for power, communication and data transfer ν' = Included • = Optional χ' = Not available 6. Storage temperature: -40°C to $+70^{\circ}\text{C}$