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 Flex line TSO		

ANGULAR MEASUREMENT		Leica FlexLine TS07
Accuracy Hz and V	Absolute, continuous, diametrical ¹	1" / 2" / 3" / 5" / 7"
	Display resolution: 0.1" (0.1 mgon) Quadruple axis compensation Compensator setting accuracy?: 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): 1.5 m to 3.500 m Prism GPR1 (Long Range mode) > 10.000 m Non-Prism / Any surface	V
	R5003 R10004	v.
Accuracy / Measurement time	Single prism ■ 1 mm + 1.5 ppm (typical 1 - 2 s)	J
	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
	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
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, colour, touch, 28 keys ⁵⁰
	2 nd keyboard	•
	Key illumination	
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	V
Data storage	 Internal memory: 2 GB Flash Memory card: SD card 1 GB or 8 GB USB memory stick: 1 GB 	V
Processor	 ■ TI OMAP4430 1GHz Dual-core ARM® Cortex™ A9 MPCore™ ■ Operating system - Windows EC7 	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	(R1000)
Laser plummet (Laserdass 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	•
Weight		4.3 - 4.5 kg
	Working temperature range: -20°C to +50°C	,
Environmental	Arctic version: –35°C to +50°C	÷
specifications ¹⁰	Dust / Water (IEC 60529) / Humidity: IP66 / 95%, non-condensing	V

- Legend:

 1. 1" (8.3 mgon), 2" (6.6 mgon), 3" (1 mgon), 5" (1.5 mgon), 7" (2 mgon)

 2. Angular accuracy / Compercator setting accuracy: 1" /0.5" (0.2 mgon), 2"(0.5" (0.2 mgon), 2"(0.2 mgon)

- 6. Distance/angle measurement every 30 seconds
 7. S PIN Lemo-0 for power, communication and data transfer
 8. For communication and data transfer
 9. For internet access, communication and data transfer,
 WLAN range up to 200 m
 10. 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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