

Leica FlexLine TS03/TS07/TS10



Leica FlexLine TS03



Leica FlexLine TS07



Leica FlexLine TS10

ANGULAR MEASUREMENT

Accuracy Hz and V	Absolute, continuous, diametrical ¹	2" / 3" / 5"	1" / 2" / 3" / 5" / 7"	1" / 2" / 3" / 5"
	<ul style="list-style-type: none"> ■ 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 	✓	✓	✓

DISTANCE MEASUREMENT

Range	<ul style="list-style-type: none"> ■ Prism (GPR1, GPH1P): 1.5 m to 3.500 m ■ Prism GPR1 (Long Range mode) > 10.000 m 	✓	✓	✓
	Non-Prism / Any surface <ul style="list-style-type: none"> ■ R500³ ■ R1000⁴ 	✓ ✗	✓ •	✓ •
Accuracy / Measurement time	Single prism <ul style="list-style-type: none"> ■ Precise+ / Once: 1 mm + 1.5 ppm (typical 2.4 s) ■ Precise&Fast / Once&Fast: 2 mm + 1.5 ppm (typical 2 s) ■ Tracking / Continuously: 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) 	✓	✓	✓
	Non-Prism / Any surface <ul style="list-style-type: none"> ■ 0 m - 500 m: 2 mm + 2 ppm (typical 3 - 6 s) ■ > 500 m: 4 mm + 2 ppm (typical 3 - 6 s) 	✓	✓	✓
Laser dot size	<ul style="list-style-type: none"> ■ At 30 m: 7 mm x 10 mm ■ At 50 m: 8 mm x 20 mm ■ At 100 m: 16 mm x 25 mm 	✓	✓	✓
Telescope	<ul style="list-style-type: none"> ■ 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 ^{5a}	3.5" (inch), 320 x 240 px QVGA, colour, touch, 28 keys ^{5b}	5" (inch), 800 x 480 pixels WVGA, colour, touch, 25 keys ^{5b} , (optional ^{5c} : 37 keys with function keys)
	2 nd keyboard	✗	•	•
	Key illumination	✗	✓	✓
Operation	<ul style="list-style-type: none"> ■ Endless drives for HZ & V ■ Trigger-Key: user definable with 2 functions 	✓	✓	✓
Power management	Exchangeable Lithium-Ion battery⁶ <ul style="list-style-type: none"> ■ Operating time with GEB361 ■ Operating time with GEB331 	up to 30 h up to 15 h	up to 30 h up to 15 h	up to 18 h up to 9 h
	Battery charging time with <ul style="list-style-type: none"> ■ 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	3 h 30 min / 3 h 6 h 30 min / 3 h 30 min
	External supply voltage <ul style="list-style-type: none"> ■ Nominal voltage 13.0 V DC & 16 W max 	✓	✓	✓
Data storage	<ul style="list-style-type: none"> ■ Internal memory: 2 GB Flash ■ Memory card: SD card 1 GB or 8 GB ■ USB memory stick: 1 GB 	✓	✓	✓
Processor	<ul style="list-style-type: none"> ■ TI OMAP4430 1GHz Dual-core ARM® Cortex™ A9 MPCore™ ■ Operating system - Windows EC7 	✓	✓	✓
Interfaces	<ul style="list-style-type: none"> ■ RS232⁷, USB device ■ Bluetooth®⁸, WLAN⁹ ■ Mobile Data sidecover: LTE-Modem for internet access 	✓ ✗ ✗	✓ ✓ •	✓ ✓ •
Guide Light (EGL)	<ul style="list-style-type: none"> ■ Working range: 5 m to 150 m ■ Position accuracy: 5 cm at 100 m ■ Wavelength red / orange: 617 nm / 593 nm 	✗	✓ (R1000)	✓ (R1000)
Laser plummet (Laserclass 2)	Accuracy <ul style="list-style-type: none"> ■ 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 <ul style="list-style-type: none"> ■ Distance accuracy: 1.0 mm (1 Sigma) ■ Distance range: 0.7 m to 2.7 m 	✗	•	✓
Weight		4.3 kg	4.3 - 4.5 kg	4.4 - 4.9 kg
Environmental specifications ¹⁰	<ul style="list-style-type: none"> ■ Working temperature range: -20°C to +50°C ■ Arctic version: -35°C to +50°C ■ Dust / Water (IEC 60529) / Humidity: IP66 / 95%, non-condensing ■ Military Standard 810G, Method 506.5 	✓ ✗ ✓ ✓	✓ • ✓ ✓	✓ • ✓ ✓

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 >1000 m), Kodak gray 18% reflective (1.5 m to >500 m)
5. (a) Face I standard, (b) Face I standard, face II optional, (c) face I optional, face II optional

6. Distance/angle measurement every 30 seconds
7. 5 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

✓ = Included • = Optional ✗ = Not available



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

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SDM
S.D.M. CO., LTD.

D5 > 4' = eU

l)E"3Rahu

f. Rcmrtgf . PqpvhcdutkVJ CkKCPf '33342 -Vgri<24'7: 4'572: 'J QVNPg <2: 3'736: 373

G/o cki<uf o vhcIB uf o @qOh'y gdukg <y y y Qif o @qOh

y y y Qif o @qOh

- when it has to be **right**

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