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Leica FlexLine TS06plus

Top precision meets
high efficiency



The First Plus: Original Leica Geosystems quality



For most, “quality” is relative. Not so at Leica Geosystems. To ensure our instruments meet the highest precision and quality requirements, we manufacture them in state-of-the-art facilities around the world. Swiss technology combines with exceptional craftsmanship to provide best-in-class devices. And this quality also applies to all of our procedures – moving Leica Geosystems towards business excellence to meet our customers’ needs and expectations in every way. The Leica FlexLine TS06plus manual total station is ideal for many daily surveying tasks, especially for mid- to high-accuracy applications. Banking on the heritage of the previous TS06 model, the most successful of the Leica FlexLine Series, the FlexLine TS06plus is the newest ultimate total station.

Welcome to the world of Leica Geosystems. Welcome to a world of people, technologies, services and devices, that you can completely rely on.

active»
Customer Care

my
world

The Second Plus:

Real features, true benefits



USB Stick

- ▶ For fast and easy transfer of data

Wireless Bluetooth

For cable-free connection to data logger



PinPoint EDM

- ▶ The most precise in its class (1.5 mm + 2 ppm)
- ▶ Extremely fast (1 second)
- ▶ > 1,000 metres without prism
- ▶ Coaxial laser pointer and measurement beam



Electronic Guide Light

- ▶ For faster stake-out



Alpha-numerical keyboard

- ▶ Fast and error-free input



FlexField plus

- ▶ Modern and intuitive on-board software for higher productivity



Large high-resolution display

- ▶ At-a-glance viewing on the largest high-resolution display in its class



Useful tools

- ▶ A range of tools, such as a trigger key and laser plummet, speed up your work



Arctic version

- ▶ For use at -35°C (-31°F)



mySecurity

- ▶ Unique theft protection locking mechanism



The Third Plus:

Top precision, speed and efficiency

The claim "easy-to-operate" seems to be everywhere. Whether this promise can be kept only becomes apparent in the practice. Because professional measurement experts were involved in its development, the Leica FlexLine TS06plus allows you to work quickly and effectively right from the first day.

Electronic Distance Measurement

Wherever high-distance measurement accuracy is required, you can face the challenge of this demanding task with the TS06plus. It provides the most accurate Electronic Distance Measurement.

Prism Mode

- .. ▶ Precision+ (1.5 mm + 2 ppm)
- .. ▶ Speed (1 second)

Non-Prism Mode

- .. ▶ Precision (2 mm + 2 ppm)
- .. ▶ PinPoint EDM with coaxial, small laser pointer and measurement beam for accurate aiming and measuring
- .. ▶ Fewer set-ups required, because targets on which it is not possible to set up a reflector can be measured using reflectorless measurement up to 1,000



The Leica FlexLine TS06plus communication side cover enables cable-free connection to any data collector via Bluetooth®, for example the field-controllers Leica CS20 controller or Leica CS35 tablet with Captivate software. The USB-stick enables the flexible transfer of such data as GSI, DXF, ASCII, LandXML and CSV.

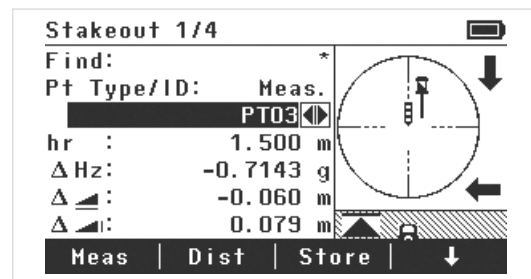
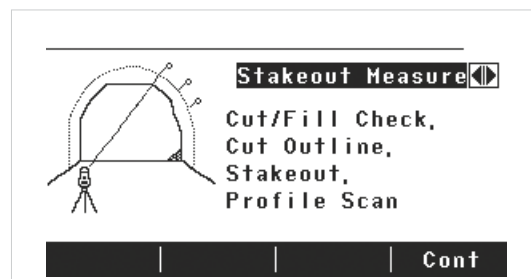
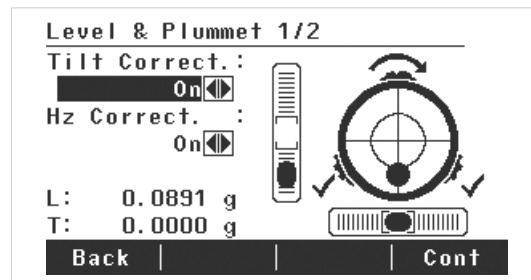


Built-in user friendliness: The full alpha-numerical keyboard.

The Leica TS06plus standard built-in

alpha-numerical keyboard enables fast and easy entry of numbers, letters and special characters, e.g. for coding. It increases the work speed while at the same time reducing possible sources of error.

FlexField plus on-board software: Easy-to-use due to its graphical guidance and intuitive workflows.



Leica Geosystems - mySecurity

mySecurity gives you total peace of mind. If your instrument is ever stolen, a locking mechanism is available to ensure that the device is disabled and can no longer be used.

Leica FlexLine TS06plus

Proven specifications, reliable instruments

ANGLE MEASUREMENT (HZ, V)

Accuracy ¹⁾	1" (0.3 mgon) / 2" (0.6 mgon) 3" (1 mgon) / 5" (1.5 mgon) 7" (2 mgon)	↕
Method	Absolute, continuous, diametrical: at all models	↕
Display resolution	0.1" / 0.1 mgon / 0.01 mil	↕
Compensation	Quadruple axis compensation: at all models	↕
Compensator setting accuracy	0.5" / 0.5" / 1" / 1.5" / 2"	↕
Compensator range	0.07 gon	↕
Endless drives	Smooth movements with no delayed response time	↕

DISTANCE MEASUREMENT WITH REFLECTOR

Range ²⁾ Round prism (Leica GPR1)	3,500 m	↕
Range ²⁾ Reflective tape (60 mm x 60 mm)	>500 m ⁹⁾ >1000 m ¹⁰⁾	↕
Range ²⁾ Prism-Long (Leica GPR1, R500/R1000)	>10,000 m	↕
Accuracy ³⁾	Precise+: 1.5 mm + 2.0 ppm Precise Fast: 2.0 mm + 2.0 ppm Tracking: 3.0 mm + 2.0 ppm	↕
Typical measurement time ⁴⁾	1.0 s	↕
Measurement time while in "Precise+" mode:	2.4 s	↕

DISTANCE MEASUREMENT WITHOUT REFLECTOR ⁵⁾

Range ⁶⁾ PinPoint R500 / R1000	> 500 m / > 1000 m	↕
Accuracy ³⁾⁶⁾	2 mm + 2 ppm	↕
Laser dot size	At 30 m: approx. 7 x 10 mm At 50 m: approx. 8 x 20 mm	↕

DATA STORAGE / COMMUNICATION

Internal memory	Max.: 100,000 fixpoints, Max.: 60,000 measurements	↕
Interfaces	- Serial (Baudrate up to 115'200) - USB Type A and mini B, - Bluetooth [®] Wireless, class 1, 150 m - TCPS29 (non-EU) > 1000 m - TCPS30 (EU) > 500 m	↕
Data formats	GSI / DXF / LandXML / CSV / user definable ASCII formats	↕

GUIDE LIGHT (EGL)

Working Range (average atmospheric conditions)	5 m – 150 m	↓
Positioning accuracy	5 cm at 100 m	↓

TELESCOPE

Magnification	30 x	↕
Resolving power	3"	↕
Field of View	1° 30' (1.66 gon) 2.7 m at 100 m	↕
Focusing range	1.7 m to infinity	↕
Reticle	Illuminated, 10 brightness levels	↕

KEYBOARD AND DISPLAY

Keyboard and display	Full Alpha-numerical keyboard with high resolution, Black & white display, Graphics, 160 x 288 pixels, Display illuminated, 5 brightness levels	↕
Position	Face I, Face II	↕

OPERATING SYSTEM

Windows CE	5.0 Core	↕
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LASERPLUMMET

Type	Laser point, 5 brightness levels	↕
Centring accuracy	1.5 mm at 1.5 m instrument height	↕

BATTERY

Type	Lithium-Ion	↕
Operating time ⁷⁾	Approx. 30 hours	↕
Battery charging time	2.3 hours	↕

WEIGHT

Total station including GEB211 and tribrach	5.1 kg	↕
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ENVIRONMENTAL

Temperature range (operation)	-20° C to +50° C (-4° F to +122° F) Arctic Version -35° C to 50° C (-31° F to +122° F)	↕
Dust / Water (IEC 60529) Humidity	IP55, 95%, non condensing	↕

LEICA FLEXFIELD PLUS ONBOARD SOFTWARE

Included Application Programs: Survey incl. Map View; Stake Out; Station Setup including: Resection, Local Resection, Helmert Re section, Orientation (Angles & Coordinates), Height Transfer; Area (Plan & Surface); DTM Volume calculation; Tie Distance (MLM); Remote Height; Hidden Point; Backsight Check; Offset; Reference Line; Reference Arc; Reference Plane; Road 2D; COGO	↕
Extra Application Programs: Road 3D, Tunnel, Traverse	↓

THEFT PROTECTION

mySecurity, PIN/PUK Code	↕
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Model Comparison: Configurations & Options of Manual Total Stations

	TS02PLUS	TS06PLUS	TS09PLUS	VIVA TS11
1" angular accuracy	-	↓	↓	↓
Enhanced measurement accuracy to prism	1.5 mm + 2 ppm	1.5 mm + 2 ppm	1.5 mm + 2 ppm	1.0 mm + 1.5 ppm
Reflectorless measurement range	500 m option	500 m included/1000 m option	500 m included/1000 m option	500 m included/1000 m option
Display with graphics and display illumination	Black & White high resolution	Black & White high resolution	Q-VGA Colour & Touch	Full-VGA Colour & Touch
Full alpha-numerical keyboard with function keys	-	↕	↕	↕
Second Keyboard	↓	↓	↓	↓
Keyboard illumination	-	-	↕	↕
Electronic Guide Light	-	↓	↕	↕
USB Type A and mini B	-	↕	↕	↕
Bluetooth [®] Wireless	-	↕	↕	↕
SD Card	-	-	-	↕
Imaging capability	-	-	-	↓
Smart Station GNSS capability	-	-	-	↓
Onboard software (package content)	FlexField plus (standard)	FlexField plus (advanced)	FlexField plus (full)	SmartWorx Viva (pro)

Legend:

- | | | | |
|--|---|---|-----------------|
| 1) Standard deviation ISO-17123-3 | varies with atmospheric conditions, target reflectivity and surface structure. | 8) Reflectorless measurement time may vary according to measuring objects, observation situations and environmental conditions. | ↕ Included |
| 2) Overcast, no haze, visibility about 40 km; no heat shimmer. | 6) Range > 500m 4mm+2ppm | 9) With R500 option using non-prism mode | ↓ Optional |
| 3) Standard deviation ISO-17123-4 | 7) Single measurement every 30 second at 25° C. Battery time may be shorter if battery is not new. Internal battery GEB222. | 10) With R1000 option using non-prism mode | - Not available |
| 4) Prism Precise Fast mode | | | |
| 5) Under optimal conditions on Kodak Grey Card (90% reflective). Maximum range | | | |

Revolutionising the world of measurement and survey for nearly 200 years, Leica Geosystems creates complete solutions for professionals across the planet. Known for premium products and innovative solution development, professionals in a diverse mix of industries, such as aerospace and defence, safety and security, construction, and manufacturing, trust Leica Geosystems for all their geospatial needs. With precise and accurate instruments, sophisticated software, and dependable services, Leica Geosystems delivers value every day to those shaping the future of our world.

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**FlexLine
TS02plus**
Brochure



**FlexLine
TS09plus**
Brochure



FlexFieldplus
Brochure



Viva TS11
Brochure



**Original
Accessories**
Brochure

