Leica FlexLine TS06plus
Top Precision meets
High Efficiency

Leica FlexLine TS06plus

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 Leica TS06 model, the most successful of the Leica FlexLine Series, the Leica FlexLine TS06plus is the newest ultimate Total Station.

- when it has to be **right**

Leica Geosystems

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. Swiss technology combines with exceptional craftsmanship to provide best-in-class devices.

The Second Plus:
Real Features, True Benefits.

The configuration includes a new cloud based theft protection, increased EDM speed and accuracy, increased Non-Prism range, USB and Bluetooth® ,alpha-numerical keyboard and the extra large graphical high resolution black & white display.

The third Plus:
Top Precision, Speed and Efficiency.

Work intuitively with the new Leica FlexField plus onboard software. Its advantages are immediately apparent with the built in alpha-numerical keyboard and the extra large black & white display.

Proven Specifications, Reliable Instruments. Leica FlexLine TS06plus Specifications

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”	✓
Distance Measurement with Reflector		
Range [2] Round prism (Leica GPR1)	3.500 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	✓
Distance Measurement without Reflector[8]		
Range [5] PinPoint R500 / R1000	> 500 m / > 1000 m	✓o
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	✓
USB memory stick	1 Gigabyte, Transfer time 1’000 points/s	o
Interfaces	- Serial (Baudrate up to 115’200) / - USB Type A and mini B, / - Bluetooth® Wireless, class 1, 150 m - > 1000 m (with TCPS29)	✓ o
Data formats	GSI / DXF / LandXML / CSV / user definable ASCII formats	✓
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	✓o
Laserplummet		
Type	Laser point, 5 brightness levels	✓
Battery		
Type, Operating time [7]	Lithium-Ion, approx. 30 hours	✓
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)	o
Dust / Water (IEC 60529) Humidity	IP55, 95%, non condensing	✓
Leica FlexField plus Onboard Software		
Included Application Programs: Topography; Stake Out; Station Setup including: Resection, Local Resection, Helmert Resection, 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, Traverse		o
Theft protection		
mySecurity, PIN/PUK Code		✓✓

✓ = included o = option

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

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