Leica FlexLine
TS06 Total Station

Leica FlexLine TS06 Total Station – Flexibility that counts

For complete flexibility, a Total Station that is ready for any challenge.Designed for mid accuracy applications. As standard, an alpha-numerical keyboard and a complete set of application software is included. For additional flexibility, a wide range of options ensures that you can always count on your TS06 Total Station.

Whether you measure to prisms, or prefer direct measurements to objects, the choice is always yours. A selection of EDM options delivers exactly what you need.

With a FlexLine TS06 Total Station you can be sure that you're fully equipped with the flexibility that you can count on..

Bluetooth® and USB Option
- _Bluetooth_® cable-free connection
- USB memory stick for flexible data transfer (GSI, DXF, ASCII, LandXML, CSV)
- Mini-USB for fast data transfer

Alpha-numerical Keyboard
- Rapid entry of numbers, letters and special characters
- Minimizes errors
- Enhances productivity

Angular Accuracy
- 2", 3" or 5" angular accuracy
- Quadruple axis compensation to guarantee accurate and reliable angle measurement

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Angle Measurement (Hz, V)		
Accuracy (Standard deviation ISO-17123-3)	2" (0.6 mgon), 3" (1 mgon), 5" (1.5 mgon)	optional
Method	Absolute, continuous, diametrical	
Display resolution	0.1" / 0.1 mgon / 0.01 mil	
Compensation	Quadruple axis compensation (Setting On, Off)	
Compensator Setting accuracy	0.5", 1", 1.5"	

Distance Measurement with Reflector		
Range Round prism GPR1	3'500 m	
Range Reflective tape (60 mm x 60 mm)	250 m	
Accuracy / Measurement time (Standard deviation ISO-17123-4)	Standard: 1.5 mm+2 ppm / typ. 2.4 s, Fast: 3 mm+2 ppm / typ. 0.8 s, Tracking: 3 mm+2 ppm / typ. <0.15 s	

Distance Measurement without Reflector		
Range (90% reflective)		
FlexPoint	30 m	
PinPoint – Power	>400 m[3]	optional
PinPoint – Ultra	>1000 m[3]	optional
Accuracy / Measurement time (Standard deviation ISO-17123-4)	2 mm+2 ppm[2] / typ. 3 s	
Laser dot size	At 30 m: approx. 7 mm x 10 mm, At 50 m: approx. 8 mm x 20 mm	

Data storage / Communication		
Extended Internal memory	Max.: 100'000 fixpoints, Max.: 60'000 measurements	
USB memory stick	1 Gigabyte, Transfer time 1'000 points/second	optional
Interfaces	Serial (Baudrate 1'200 to 115'200) USB Type A and mini B, *Bluetooth*® Wireless	 optional
Data formats	GSI / DXF / LandXML /CSV / user definable ASCII formats	

Electronic Guide Light		
Working Range (average atmospheric conditions)	5 m – 150 m	optional
Positioning accuracy	5 cm at 100 m	optional

General		
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, 5 brightness levels	
Keyboard and Display		
Display	Graphics, 160 x 280 pixels, illuminated, 5 brightness levels	
Keyboard	Alpha-numerical keyboard Second keyboard	 optional
Operating System		
Windows CE	5.0 Core	
Laserplummet		
Type	Laser point, illuminated, 5 brightness levels	
Centering accuracy	1.5 mm at 1.5 m Instrument height	
Battery		
Type	Lithium-Ion	
Operating time	approx. 20 hours[1]	
Weight		
Total station including GEB211 and tribrach	5.1 kg	
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)	 optional
Dust & splash proof (IEC 60529)	IP55	
Humidity	95%, non condensing	

FlexField Onboard Software		
Application programs	Topography (Orientation & Surveying), Stake Out, Resection, Height Transfer, Construction, Area (Plan & Surface), DTM Volume calculation, Tie Distance (MLM), Remote Height, Hidden Point, Backsight Check, Offset, Reference Line, Reference Arc, Reference Plane, COGO, Road 2D	
Application programs	Roadworks 3D, Traverse Pro	optional

[1] Single Measurement every 30 second by 25° C. Battery time may be shorter if battery is not new. Internal battery GEB 221.
[2] Range >500 m 4 mm+2 ppm
[3] Atmospheric conditions: Day, night and twilight

Swiss Technology by Leica Geosystems

Design:
D605.959

TQM ISO 9001 / ISO 14001

Total Quality Management – our commitment to total customer satisfaction.

Guide light (EGL):
LED class 1 in accordance with IEC 60825-1 resp. EN 60825-1

Distance meter:
(PintPoint R400 / R1000):
Laser class 3R in accordance with IEC 60825-1 resp. EN 60825-1

Laser plummet:
Laser class 2 in accordance with IEC 60825-1 resp. EN 60825-1

Distance meter:
(Prism Mode)
Laser class 1 in accordance with IEC 60825-1 resp. EN 60825-1

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