

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
- mini-USB for fast data transfer



Alpha-numerical Keyboard

- Rapid entry of numbers, letters and special characters
- Minimizes errors
- Enhance productivity



Angular Accuracy

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

- when it has to be **right**

Leica
Geosystems

Leica FlexLine TS06 Total Station – Flexibility that counts

	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	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	optional
	PinPoint – Power	>400 m	
	PinPoint – Ultra	>1000 m	
	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 / user definable ASCII formats

	Emitting 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 specifications	
	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), Volume calculation, Tie Distance (MLM), Remote Height, Hidden Point, 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.

² Range >500 m 4 mm+2 ppm



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:
(PinPoint 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

Illustrations, descriptions and technical data are not binding. All rights reserved. Printed in Switzerland – Copyright Leica Geosystems AG, Heerbrugg, Switzerland, 2008. 768719enUS – IX.08 – RDV