Leica FlexLineTS02 Total Station



Leica FlexLine TS02 Total Station – Ideal Today, perfect Tomorrow

The ideal Total Station for standard measurement tasks. Designed especially for mid-to-low accuracy applications. It comes complete with a standard set of application software that guide you through your daily work. If more convenient, use *Bluetooth®* wireless technology to connect any data collector, e.g. the Leica CS10/15. Use SmartWorx Viva or the Software which best suits your task and familiarity.

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 TS02 Total Station you'll complete your measurement tasks today and tomorrow, faster and more reliable than ever before.



Bluetooth® Option

- Cable-free connection
- License-free communication
- Select any familiar data collector and Software



USB Option

- Trouble-free USB plug-and-play technology
- USB memory stick for flexible data transfer (GSI, DXF, ASCII, LandXML, CSV)
- Mini-USB for fast data transfer



Alpha-numerical Keyboard Option

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



Leica FlexLine TS02 Total Station -

Ideal today, perfect tomorrow



Angle Measurement (Hz, V)		
Accuracy (Standard deviation ISO-17123-3)	3" (1 mgon), 5" (1.5 mgon), 7" (2 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	1", 1.5", 2"	



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: 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	
(Standard deviation ISO-17123-4)		



Distance Measurement without Reflector		
Range (90% reflective)		
FlexPoint	30 m	optional
PinPoint - Power	> 400 m ³⁾	optional
PinPoint - Ultra	> 1000 m ³⁾	optional
Accuracy / Measurement time	2 mm+2 ppm² / typ. 3 s	
(Standard deviation ISO-17123-4)		
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.: 24'000 fixpoints, Max.: 13'500 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
D-4- f	CCL / DVE / Land VAN / CCV / warm defeated a CCL formation	



Electronic Guide Light for Stake Out (optional)		
Working Range	5 m - 150 m	optional
(average atmospheric conditions)		
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	Standard keyboard	
	Alpha-numerical keyboard, Second keyboard	optional
Operating System		
Windows CE	5.0 Core	
Laserplummet		
Туре	Laser point, 5 brightness levels	
Centering accuracy	1.5 mm at 1.5 m Instrument height	
Battery		
Туре	Lithium-lon	
Operating time	approx. 20 hours¹	
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	
Application programs	Reference Arc, Reference Plane, COGO, Road 2D	optional

- ¹ Single Measurement every 30 second at 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





Total Quality Management – our commitment to total customer satisfaction.

Guide light (EGL): EN 60825-1

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

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

(Prism Mode) Laser class 1 in accordance with IEC 60825-1 resp.

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