



Leica FlexLine TS09 Total Station – Performance guaranteed

	Angle Measurement (Hz, V)		
	Accuracy (Standard deviation ISO-17123-3)	1" (0.3 mgon), 2" (0.6 mgon), 3" (1 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", 0.5", 1"	
	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 mm+1.5 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)		optional-optional
	FlexPoint	30 m	
	PinPoint – Power	> 400 m ³	
	PinPoint – Ultra	> 1000 m ³	
	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	
	Interfaces	Serial (Baudrate 1'200 to 115'200) USB Type A and mini B, Bluetooth® Wireless	
	Data formats	GSI / DXF / LandXML / CSV / user definable ASCII formats	
	Electronic Guide Light		
	Working Range (average atmospheric conditions)	5 m – 150 m	
	Positioning accuracy	5 cm at 100 m	
	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	
	Operating System		
	Windows CE	5.0 Core	
	Laserplummet		
	Type	Laser point, 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	5.4 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, Roadworks 3D, TraversePRO	