# Leica FlexLine TS06plus

Top precision meets high efficiency







# The First Plus: Original Leica Geosystems quality



# The Second Plus:

# Real features, true benefits



#### **USB Stick**

 For fast and easy transfer of data

### Wireless Bluetooth®

For cable-free connection to data logger



#### PinPoint EDM

- The most precise in its class (1.5 mm + 2 ppm)
- Extremely fast (1 second)
- 1,000 metres without prism
- Coaxial laser pointer and measurement beam



### Electronic Guide Light

For faster stake-out



# Alpha-numerical keyboard

Fast and errorfree input



## FlexField plus

 Modern and intuitive onboard software for higher productivity



## Large highresolution display

 At-a-glance viewing on the largest high-resolution display in its class



### **Useful tools**

 A range of tools, such as a trigger key and laser plummet, speed up your work



#### **Arctic version**

■ For use at -35°C (-31°F)



#### mySecurity

Unique theft protection locking mechanism



## The Third Plus:

# Top precision, speed and efficiency

The claim "easy-to-operate" seems to be everywhere. Whether this promise can be kept only becomes apparent in the practice. Because professional measurement experts were involved in its development, the Leica FlexLine TSO6plus allows you to work quickly and effectively right from the first day.

#### **Electronic Distance Measurement**

Wherever high-distance measurement accuracy is required, you can face the challenge of this demanding task with the TSO6plus. It provides the most accurate Electronic Distance Measurement.

#### **Prism Mode**

- Precision+ (1.5 mm + 2 ppm)
- Speed (1 second)

### Non-Prism Mode

- Precision (2 mm + 2 ppm)
- PinPoint EDM with coaxial, small laser pointer and measurement beam for accurate aiming and measuring
- Fewer set-ups required, because targets on which it is not possible to set up a reflector can be measured using reflectorless measurement up to 1,000



The Leica FlexLine TS06plus communication side cover enables cable-free connection to any data collector via Bluetooth®, for example the field-controllers Leica CS20 controller or Leica CS35 tablet with Captivate software. The USB-stick enables the flexible transfer of such data as GSI, DXF, ASCII, LandXML and CSV.

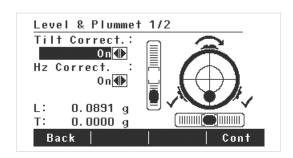


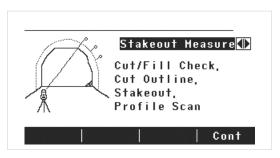
Built-in user friendliness: The full alpha-numerical keyboard.

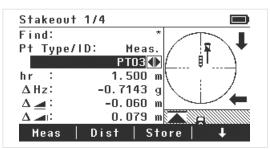
The Leica TS06plus standard built-in

alpha-numerical keyboard enables fast and easy entry of numbers, letters and special characters, e.g. for coding. It increases the work speed while at the same time reducing possible sources of error.

**FlexField plus on-board software:** Easy-to-use due to its graphical guidance and intuitive workflows.









## Leica Geosystems - mySecurity

mySecurity gives you total peace of mind. If your instrument is ever stolen, a locking mechanism is available to ensure that the device is disabled and can no longer be used.

# Leica FlexLine TS06plus

# Proven specifications, reliable instruments

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"		
Compensator range	0.07 gon		
Endless drives	Smooth movements with no delayed response time		
DISTANCE MEASUREMENT WITH RE	FLECTOR		
Range <sup>2)</sup> Round prism (Leica GPR1)	3,500 m	✓	
Range <sup>2)</sup> Reflective tape (60 mm x 60 mm)	>500 m <sup>9)</sup> >1000 m <sup>10)</sup>	✓	
Range <sup>2)</sup> Prism-Long (Leica GPR1, R500/R1000)	>10,000 m	✓	
Accuracy <sup>3)</sup> Typical measurement time <sup>4)</sup>	Precise+: 1.5 mm + 2.0 ppm Precise Fast: 2.0 mm + 2.0 ppm Tracking: 3.0 mm + 2.0 ppm 1.0 s	✓ ✓	
Measurement time while in "Precise+" mode:	2.4 s	<b>✓</b>	
DISTANCE MEASUREMENT WITHOU	IT REFLECTOR 8)		
Range 5) PinPoint R500 / R1000	> 500 m / > 1000 m	<b>√</b> 0	
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	✓	
Interfaces	<ul> <li>Serial (Baudrate up to 115'200)</li> <li>USB Type A and mini B,</li> <li>Bluetooth® Wireless, class 1,</li> <li>150 m</li> <li>TCPS29 (non-EU) &gt; 1000 m</li> <li>TCPS30 (EU) &gt; 500 m</li> </ul>		
Data formats	GSI / DXF / LandXML / CSV / user definable ASCII formats		
GUIDE LIGHT (EGL)			
Working Range (average atmospheric conditions)	5 m – 150 m		
Positioning accuracy	5 cm at 100 m		

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, 10 brightness levels	✓
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	<b>√</b> 0
OPERATING SYSTEM		
Windows CE	5.0 Core	✓
LASERPLUMMET		
Туре	Laser point, 5 brightness levels	✓
Centring accuracy	1.5 mm at 1.5 m instrument height	✓
BATTERY		
Туре	Lithium-lon	✓
Operating time 7)	Approx. 30 hours	✓
Battery charging time	2.3 hours	✓
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)	0
Dust / Water (IEC 60529) Humidity	IP55, 95%, non condensing	✓
LEICA FLEXFIELD PLUS ONBOARD S	OFWARE	
Included Application Programs: Su on Setup including: Resection, Local F tation (Angles & Coordinates), Height DTM Volume calculation; To Distance Point; Backsight Check; Offset; Refere Plane; Road 2D; COGO	Resection, Helmert Resection, Orien- t Transfer; Area (Plan & Surface); (MLM); Remote Height; Hidden	✓
Extra Application Programs: Road	3D, Tunnel, Traverse	0
THEFT PROTECTION		
mySecurity, PIN/PUK Code		√√

### Model Comparison: Configurations & Options of Manual Total Stations

	TS02PLUS	TS06PLUS	TS09PLUS	VIVA TS11
1" angular accuracy	_	0	0	0
Enhanced measurement accuracy to prism	1.5 mm + 2 ppm	1.5 mm + 2 ppm	1.5 mm + 2 ppm	1.0 mm + 1.5 ppm
Reflectorless measurement range	500 m option	500 m included/1000 m option	500 m included/1000 m option	500 m included/1000 m option
Display with graphics and display illumination	Black & White high resolution	Black & White high resolution	Q-VGA Colour & Touch	Full-VGA Colour & Touch
Full alpha-numerical keyboard with function keys	_	✓	✓	✓
Second Keyboard	0	0	0	•
Keyboard illumination	_	_	✓	✓
Electronic Guide Light	<del>-</del>	0	✓	<b>✓</b>
USB Type A and mini B	_	<b>✓</b>	✓	✓
Bluetooth® Wireless	<del>-</del>	✓	✓	<b>✓</b>
SD Card	_	_	_	✓
maging capability	_	_	-	0
Smart Station GNSS capability	_	_	_	0
Onboard software (package content)	FlexField plus (standard)	FlexField plus (advanced)	FlexField plus (full)	SmartWorx Viva (pro)

#### Legend:

- 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 at 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.
- 9) With R500 option using non-prism mode
- 10) With R1000 option using non-prism mode
- ✓ Included
- Optional

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FlexLine TS02plus Brochure



FlexLine TS09plus Brochure



FlexFieldplus Brochure



**Viva TS11** Brochure



Original Accessories Brochure









