# Leica FlexLine TS02/TS06/TS09 Quick Guide

Version 1.0 English

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To use the product in a permitted manner, please refer to the detailed safety instructions in the User Manual.

# **Container Contents**



- a) GKL211 battery charger\*
- b) GFZ3 diagonal eyepiece\*
- c) GEV189 data cable (USB-RS232)\*
- d) GLI115 clip-on bubble\*
- e) GHT196 holder for height meter\*
- f) CPR105 flat prism\*
- g) GLS115 mini prism pole\*
- h) GHM007 height meter\*
- i) Protective cover / Lens hood
- j) GEV223 data cable (USB-mini USB)
- k) GMP111 mini prism\*
- I) Adjustment tools
- m) GEB211 batteries\*
- n) GAD105 flat or mini prism adapter\*
- o) MS1 Leica industrial grade USB memory stick
- p) GEB221 battery\*
- q) Tip for mini prism pole\*
- r) Counterweight for diagonal eyepiece\*
- s) Instrument with supplied tribrach
- t) User manual and quick guide

\* Optional

The GEV223 data cable (USB-mini USB) and MS1 Leica industrial grade USB memory stick are for instruments with a Communication side cover.

# **User Interface**

# Keys

	Page key. Displays the next screen when several screens are available.
	FNC key. Quick-access to measurement supporting functions.
<b>*</b>	User key 1. Programmable with a function from the FNC menu.
	User key 2. Programmable with a function from the FNC menu.
	ENTER key. Confirms an entry and continues to the next field.
	Navigation key. Controls the focus bar.
	ESC key. Quits a screen or edit mode without saving changes. Returns to next higher level.
F1, F2, F3, F4	Function keys that are assigned the variable functions displayed at the bottom of the screen.
80 00 00 00 00 00 00 00 00 00 00 00 00 0	Alphanumeric keypad for entry of text and numerical values.

# Keyboard

## Standard keyboard

#### Alphanumeric keyboard



# Screen



- a) Title of screen
- b) Fields
- c) Status icons
- d) Focus in screen. Active field
- e) Softkeys

## **Status Icons**

lcon	Description	lcon	Description		
	The battery symbol indicates the level of the remaining battery capacity.	I	Telescope position face I.		
	Compensator is on.	II	Telescope position face II.		
$\bowtie$	Compensator is off.	$\otimes$	Leica standard prism.		
Р	Prism EDM mode.		Leica mini prism.		
NP	Non-Prism EDM mode.		Leica 360° prism.		
!	Offset is active.		Leica 360° mini prism.		
012	Keypad is set to numeric mode.	. 🔶	Leica reflector tape.		
ABC	Keypad is set to alphanumeric mode.		User defined prism.		
C	Anticlockwise horizontal angle measure- ment.		USB communication port is selected.		
	Selectable field.	8	Bluetooth is connected. If the icon has a small cross beside it, the Bluetooth commu- nication port is selected, but the status is inactive.		
<b>▲</b> , <b>▼</b> , <b>▲</b>	Up and down arrows indicate that several screens are available, which are accessed using .				

# **Data Storage and Transfer**

## Description

An internal memory is included in all instruments. The FlexField firmware stores all data in jobs in a database in the internal memory. Data can then be transferred to a computer or other device for post processing via a LEMO cable connected to the serial interface RS232 port.

For instruments fitted with a Communication side cover, data can also be transferred from the internal memory to a computer or other device via:

- a USB memory stick inserted into the USB host port,
- a USB cable connected to the USB device port, or
- via a Bluetooth connection.

# Main Menu



- a) Quick Survey program to begin measuring immediately.
- b) To select and start applications.
- c) To manage jobs, data, codelists, formats, system memory and USB memory stick files
- d) To export and import data.
- e) To change EDM configurations, communication parameters and general instrument settings.
- f) To access instrument related tools such as check and adjust calibrations, personal start up settings, PIN code settings, licence keys and system information.

# Menu Tree



# **Q-Survey Application**

## Description

After switching on and setting up correctly, the instrument is immediately ready for measuring.

## Access

Select **Q-Survey** from the **MAIN MENU**.

## QUICK-SURVEY



## ALL

To start measurements and save the measured values.

#### DIST

To start measurements and display the measured values.

### REC

To save the displayed values.

#### CODE

To find/enter codes.

### STATION

To enter station data and set the station.

### Hz=0

To set the orientation to horizontal direction = 0.

I Hz← / Hz→

To set the horizontal angle reading to the left (anticlockwise) or to the right (clockwise).

#### Next step

Measure and record the point by pressing **DIST** and **REC**, or **ALL**.

# **EDM Settings**

EDM mode

EDMINIOGE		Thom type		
Prism- Standard	Fine measuring mode for high precision measurements with prisms.	Round		Standard prism GPR121/111
Non-Prism- Std.	For distance measurements without prisms.			Leica Constant: 0.0 mm
Non-Prism- Track.	For continuous distance measurements without prisms.	Mini		GMP111 Leica Constant: +17.5 mm GMP111-0 Leica Constant: 0.0 mm
Prism (>3.5km)	For long range distance measurements with prisms.	JpMini	Miniprism.	Leica Constant: +34.4 mm
Prism-Fast	Quick measuring mode with prisms with higher measuring speed and reduced accuracy.	360°	86 55 86 55 86 78	GRZ4/122 Leica Constant: +23.1 mm
Prism- Tracking	For continuous distance measurements with prisms.	360° Mini		GRZ101 Leica Constant: +30.0 mm
Таре	For distance measurements using Retro reflective targets.	User1 / User2	The user can define two of their own prisms. Constants can be entered in mm.	
FlexPoint	For distance measurements without prisms, up to ~30 m.	Таре	$\bigoplus$	Leica Constant: +34.4 mm
		None	Without prism.	Leica Constant: +34.4 mm

## Prism type

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