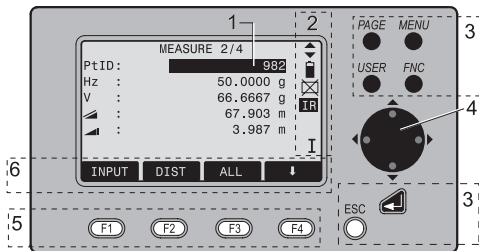## Directstart with Station

1. Switch instrument on (On/Off key on the side panel).
2. Press function key [STATION] (if required, switch to correct level with **F4**).
3. Enter station data and confirm with [OK].
4. Start measurement with [DIST] / [REC] or [ALL].

Keypad

1) Focus: Actively measured field.
2) Symbols
3) Fixed keys: Keys with firmly assigned functions.
4) Navigation keys: Control of input bar in edit and input mode or control of focus bar.

5) Function keys: Are assigned the variable functions displayed at the bottom of the screen.
6) Softkey bar: Displays functions that can be called up with the function keys.
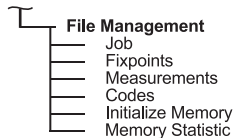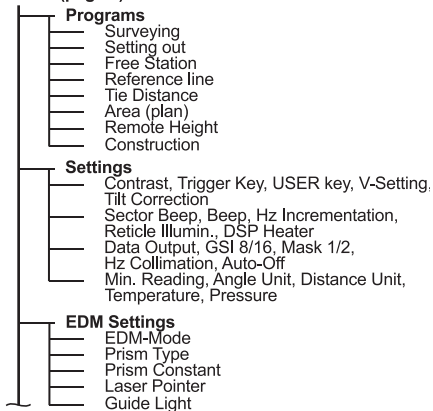
Fixed keys

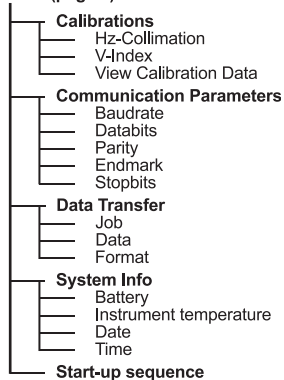|	
[PAGE]	Scrolls to next page when a dialogue consists of several pages.
[MENU]	Accesses programs, settings, the data manager, adjustments, communications parameters, system information and data transfer.
[USER]	Key, programmable with function from the FNC menu.
[FNC]	Quick-access to measurement-supporting functions.
[ESC]	Quit a dialog or the edit mode with activation of the "previous" value. Return to next heigher level.
◀	Confirm an input; continue to the next field.

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[MENU] > **F1** - **F4** Confirm menu selection.
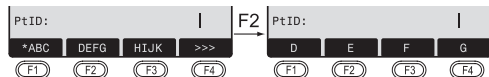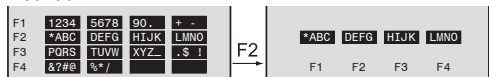[PAGE]   Scroll to next page.

Menu (page 1)
- **Programs**
  - Surveying
  - Setting out
  - Free Station
  - Reference line
  - Tie Distance
  - Area (plan)
  - Remote Height
  - Construction
- **Settings**
  - Contrast, Trigger Key, USER key, V-Setting,
  - Tilt Correction
  - Sector Beep, Beep, Hz Incremention,
  - Reticle Illumin., DSP Heater
  - Data Output, GSI 8/16, Mask 1/2,
  - Hz Collimation, Auto-Off
  - Min. Reading, Angle Unit, Distance Unit,
  - Temperature, Pressure
- **EDM Settings**
  - EDM-Mode
  - Prism Type
  - Prism Constant
  - Laser Pointer
  - Guide Light

- **File Management**
  - Job
  - Fixpoints
  - Measurements
  - Codes
  - Initialize Memory
  - Memory Statistic

Menu (page 2)
- **Calibrations**
  - Hz-Collimation
  - V-Index
  - View Calibration Data
- **Communication Parameters**
  - Baudrate
  - Databits
  - Parity
  - Endmark
  - Stopbits
- **Data Transfer**
  - Job
  - Data
  - Format
- **System Info**
  - Battery
  - Instrument temperature
  - Date
  - Time
- **Start-up sequence**

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Input mode

Method 1:

PtID:						F2	PtID:						
*ABC	DEFG	HIJK	>>>				D	E	F	G		
(F1)	(F2)	(F3)	(F4)				(F1)	(F2)	(F3)	(F4)		

Method 2:

F1	1234	5678	90.	+ -		F2	*ABC	DEFG	HIJK	LMNO
F2	*ABC	DEFG	HIJK	LMNO						
F3	PQRS	TUVW	XYZ_	.$!			F1	F2	F3	F4
F4	&?#@	%*/								

[INPUT]   1. Delete entry, display numeric/ alphanumeric softkey bar.

F1 - **F3**   2. Selection of range of characters/ numbers.

[>>>]   Additional characters/ numbers.

F1 - **F4**   3. Select the desired character.

◢   4. Confirm input.

[ESC]   Deletes input and restores previous value.

☞   The method you like to use can be set in the settings.

Edit mode

Info4:			PR■P	F4	Info4:			PR□P
L	M	N	O		LMNO	PQRS	TUVW	>>>
(F1)	(F2)	(F3)	(F4)		(F1)	(F2)	(F3)	(F4)
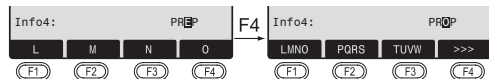
1. Start edit mode.
   Edit bar is positioned flush right.
   Edit bar is positioned flush left.

F1 - **F3**   2. Select range of characters/ numbers.

[>>>]   Additional characters/ numbers.

F1 - **F4**   3. Overwrite existing characters.

◢   4. Confirm input.

[ESC]   Deletes input and restores previous value.

Erasing characters

1. Place cursor on character to be deleted.

2. Pressing the navigation key deletes the relevant character.

◢   3. Confirm input.

[ESC]   Deletes input and restores previous value.

Inserting characters

If a character was skipped (e.g. -15 instead of -125) you can insert it later.

PPM:			-■5	F2	PPM:			-12■
1	2	3	4		1234	5678	90.	>>>
(F1)	(F2)	(F3)	(F4)		(F1)	(F2)	(F3)	(F4)

1. Place cursor on "1".

2. Inserts an empty character on the right of "1".

F1 - **F3**   3. Select range of characters /range of numbers.

F1 - **F4**   4. Select relevant character.

◢   5. Confirm input.

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EDM Mode

With TCR instruments different settings for measurements with visible (RL) and invisible (IR) EDM type are available.

Depending on selected measuring mode the selection prism types are different.

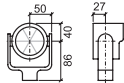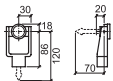|	
IR-Fine	Fine measuring mode for high precision measurements (2mm + 2 ppm)
IR-Fast	Quick measuring mode with higher measuring speed and reduced accuracy (5mm + 2 ppm)
IR-Track	Continuous distance measuring (5mm + 2 ppm)
IR-Tape	Distance measurement using Retro targets (5mm + 2 ppm)

RL-Short	Short range. For distance measurements without prisms with a target distance up to 80 m (3mm + 2 ppm)
RL-Track	Continuous distance measurement without prisms (5mm + 2 ppm)
RL-Prism	Long range. For distance measurements with prisms (5mm + 2 ppm)

☞ With the RL-EDM each object in the beam is measured (possibly also branches, cars, etc.).

Prism type

Calling the function in the EDM settings.

Leica Prisms	Constants [mm]	
Standard prism GPH1 + GPR1	0.0	
360° prism GRZ4	+23.1	
360° Mini prism GRZ101	+30.0	
Miniprism GMP101/102	+17.5	
JPMINI	+34.4	Mini prism
Reflective targets	+34.4	
USER	--	is set at "Prismconst" (-mm + 34.4; e.g.: mm = 14 -> input = -14 + 34.4 = 20.4)
RL	+34.4	Reflectorless

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