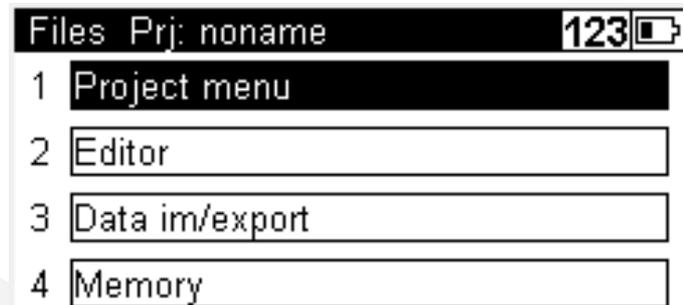
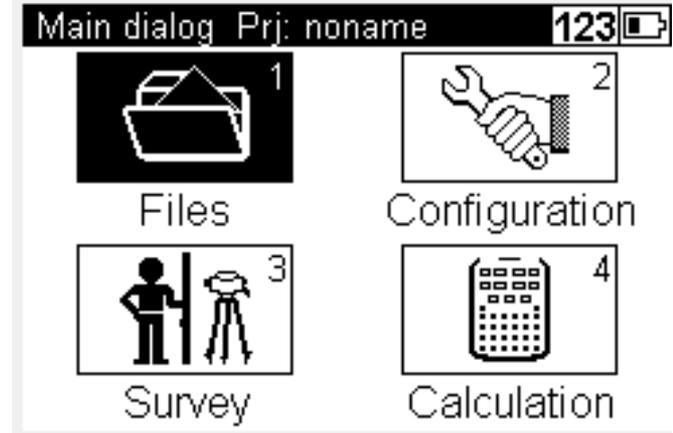


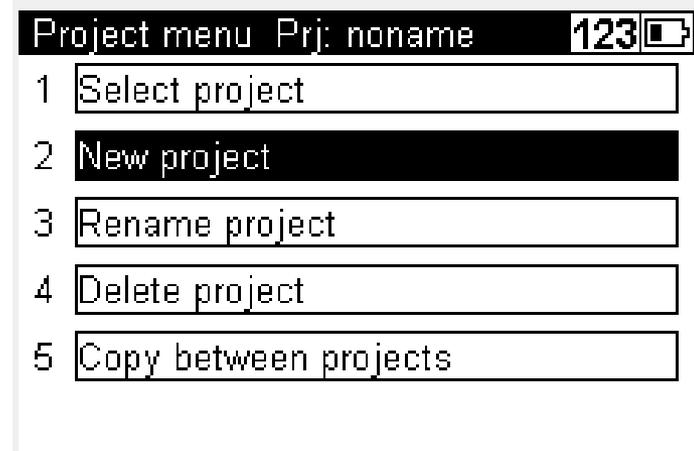
MEASUREMENT

PROJECT SETUP

- Choose *Files* to create your new project setup.
- Select *Project Menu*

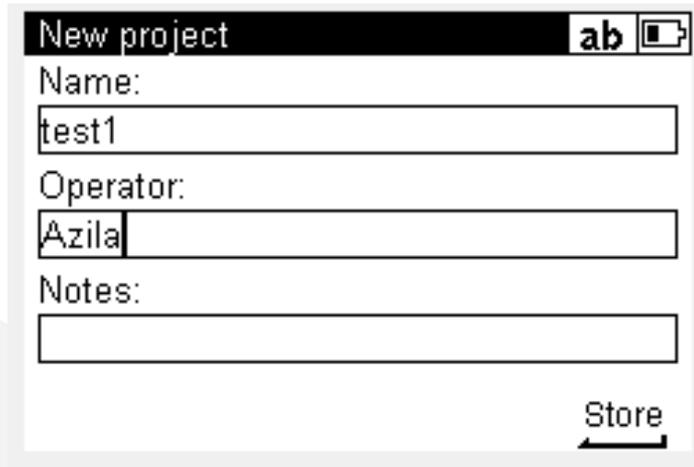


- Select *New Project*
- *Key In* all necessary input such name of the project. Click *Store*. Press *Esc* button to get to main menu or choose *Trimble*



Project menu Prj: noname 123

- 1 Select project
- 2 **New project**
- 3 Rename project
- 4 Delete project
- 5 Copy between projects



New project ab

Name:
test1

Operator:
Azila

Notes:

Store

SINGLE POINT MEASUREMENT

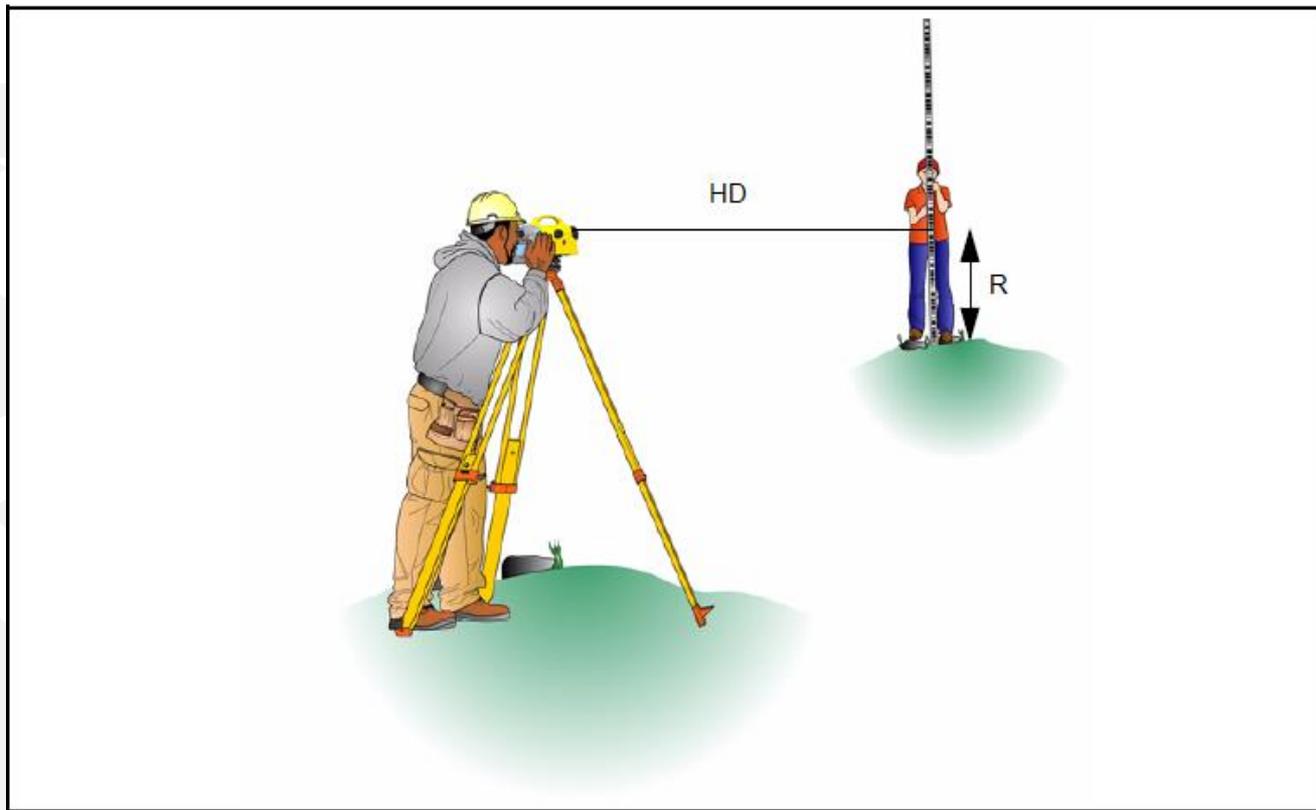
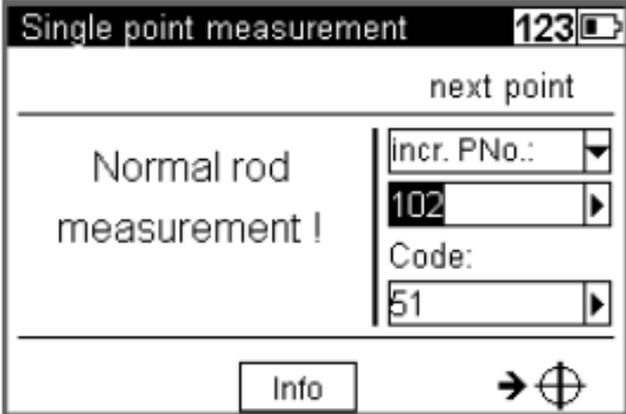
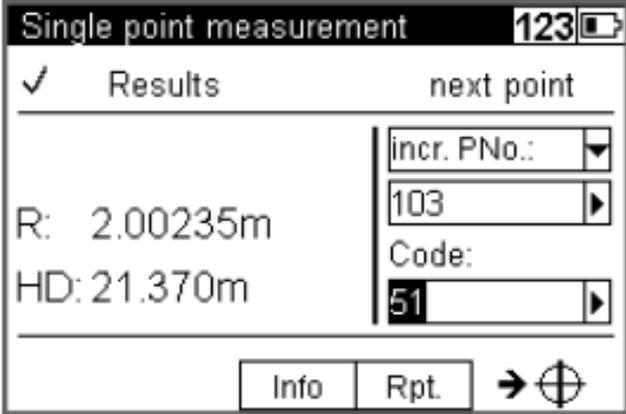


Figure 5.1 Single point measurement (without reference height)

PROCEDURE

| Actions | Screen | Comments |
|--|---|--|
| <p>Select Survey and Single Point measurement</p> <p>Enter Point number and Point code.</p> <p>Press the  /  trigger key to start the measurement.</p> |  | <p>The point number and code entered will be stored with the next measurement.</p> |
| <p>Start measurement to next point.</p> |  | <p>Info shows battery status and time, date. Rpt. offers repetition</p> |

Line measurement

1. In line measurement you also able to perform intermediate and stake out.
2. The measurement actual difference is computed when you entered the value of start and end points.

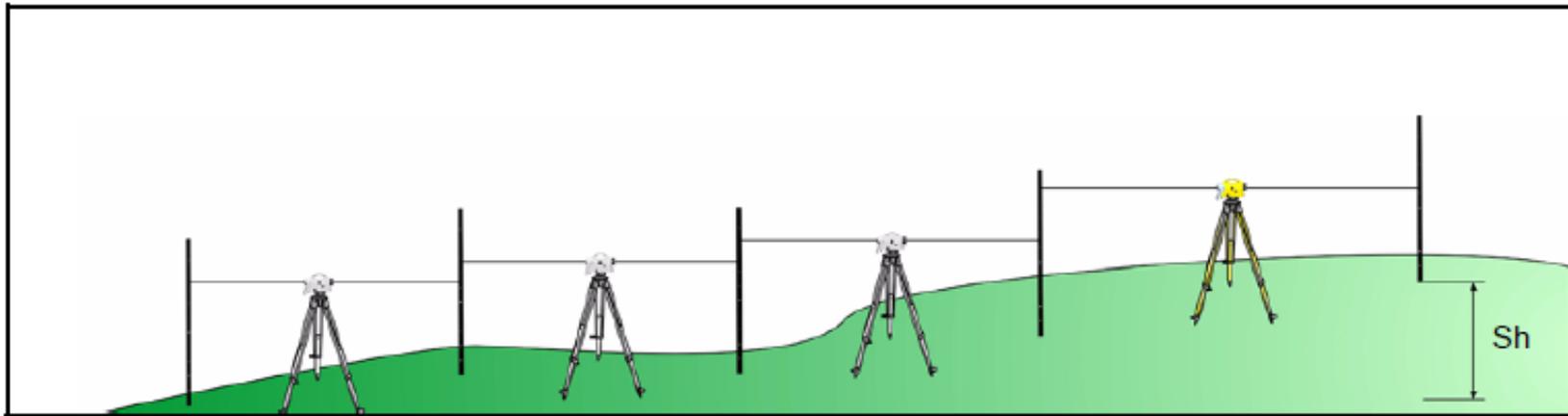
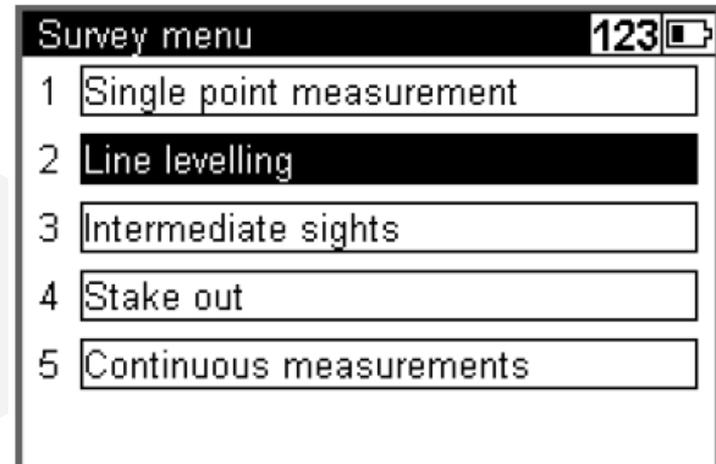
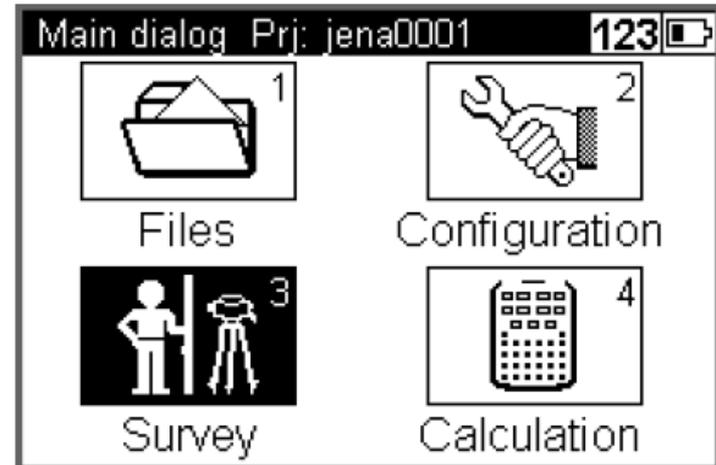


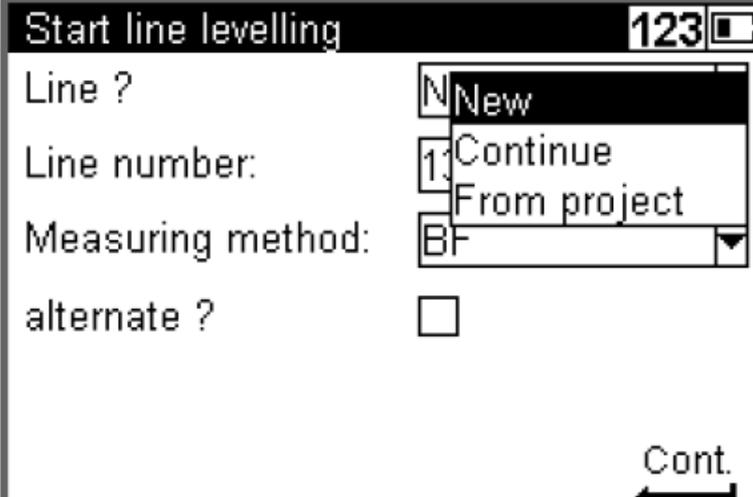
Figure 5.2 Line leveling

Line Levelling Setup

- Choose *Survey*
- *Line levelling*



- Choose *new* to create a new line measurement.



Start line levelling 123

Line ? **New**

Line number: Continue

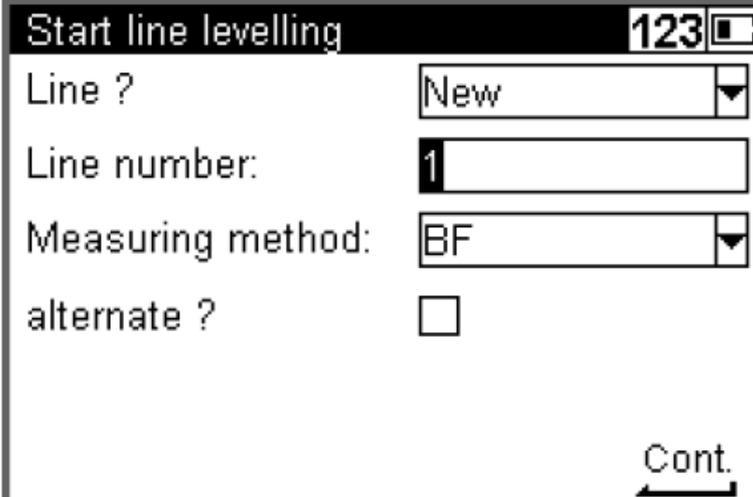
Measuring method: From project

alternate ?

Cont.

Detailed description: This screenshot shows a software dialog box titled "Start line levelling" with a battery icon and the number "123" in the top right corner. The "Line ?" field has a dropdown menu open, showing "New" as the selected option. The "Line number:" field contains the number "1". The "Measuring method:" field has a dropdown menu showing "BF" and "From project" as options. There is an unchecked checkbox for "alternate ?". A "Cont." button with a right-pointing arrow is at the bottom right.

- Key in the line Number of your choice



Start line levelling 123

Line ?

Line number:

Measuring method:

alternate ?

Cont.

Detailed description: This screenshot shows the same "Start line levelling" dialog box. The "Line ?" dropdown is now closed and shows "New". The "Line number:" field contains "1". The "Measuring method:" dropdown shows "BF". The "alternate ?" checkbox remains unchecked. The "Cont." button is at the bottom right.

- Choose your measuring method.
- Press enter to continue.
- Key in point number, code and BM height.

Start line levelling 123 

Line ? New 

Line number: 1 

Measuring method: BFFB

alternate ? BFBF

BBFF

FBBF

Cont. 

Line levelling benchmark 123 

Input

Point number: 10215 

Code: 51 

Benchmark height: 101.05000m

Cont. 

Line measurement

- Start measurement by pressing trigger button on the right side of the equipment.
- The back value will be displayed with a right tick. Continue to measure the foresight value.

Line levelling 123

SNo:001

Z: 101.05000m | indiv. PNo.:
10215
Code:
51

Info

Line levelling 123

SNo:001

Zi: 103.50566m | incr. PNo.:

Rb: 2.45566m |

HD: 35.190m | Code:

Info Rpt.

Instrument Information

- Use the up and down button to select *Info*
- An *information regarding your instrument status will appear*

Line levelling 123

✓ BF SNo:001 BF

Zi: 103.50566m

Rb: 2.45566m

HD: 35.190m

incr. PNo.: [v]

1 [r]

Code: [25]

Info Rpt. [directional pad]

Info instrument Prj: jena0001 123

Memory status: 50% (1024 kB)

Battery status: 45%

Date: 20.11.2006

Time: 15:34:39

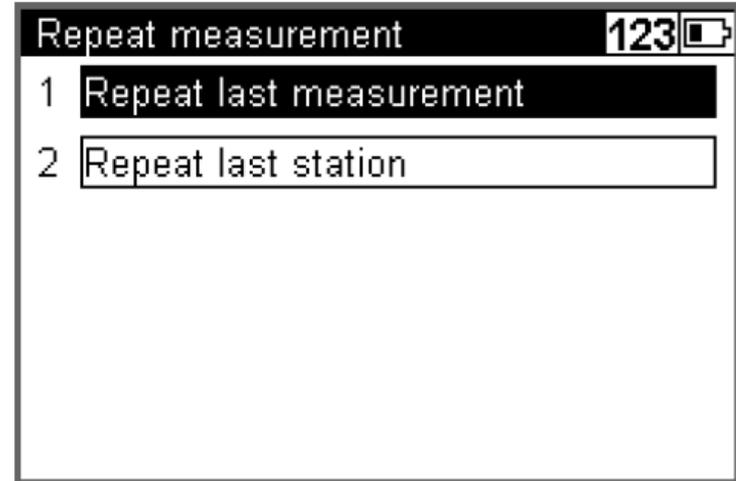
Total sighting distances:

Db: 208.50m Df: 200.26m

Cont.

Repeat Measurement

- You would be able to repeat your last measurement or repeat your whole last station if you thing the reading need to be measured again.



Ending Line Measurement

- Choose Lend to end your line measurement
- Click yes to end with a known height point

Line levelling 123

✓ FB SNo:005

Z: 151.61948m | incr. PNo.:
Rb: 1.98711m | 20004
HD: 25.237m | Code:
52

Lend Disp Info Rpt. → ⊕

Line levelling 123

✓ FB SNo:005

Z: | incr. PNo.:
Rb: | 20004
HD: | Code:
52

Please confirm ...
End with closing benchmark?
Yes No

Lend Disp Info Rpt. → ⊕

- Select from point number if you already existing known point. This applicable mostly if you start and end at the same benchmark.
- If its an open loop just key in the benchmark value of your last measured BM.
- Click Continue and it will show you the line levelling results.

Ending a levelling line 123

Input

Point number:

Code:

Benchmark height:

Cont.

Line levelling results 123

Total height difference:

Sh: 1.61948m

Final difference (nominal - actual):

dz: -0.00008m

Total sighting distances:

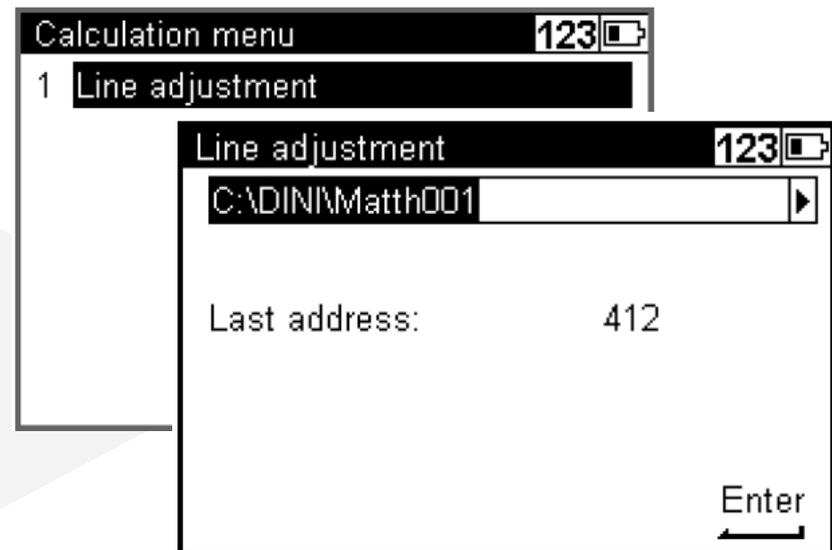
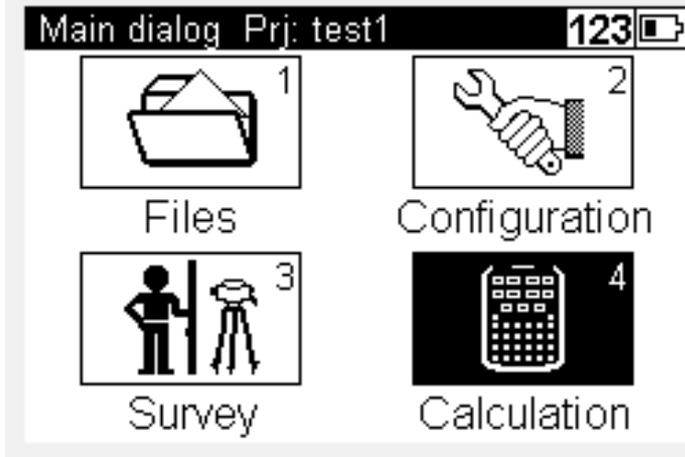
Db: 85.74m Df: 85.21m

Cont.

LINE ADJUSTMENT

Line Adjustment

- To perform Line Adjustment in Trimble Dini choose **Calculation**
- Choose **line adjustment** – select your **project** – press **enter**



- Select your start line
- If you choose to use by line number – key in your line number.
- Select **Accept** to the proposed line

Select data Prj: test1 123

Search for

Start line: ? ? Line number

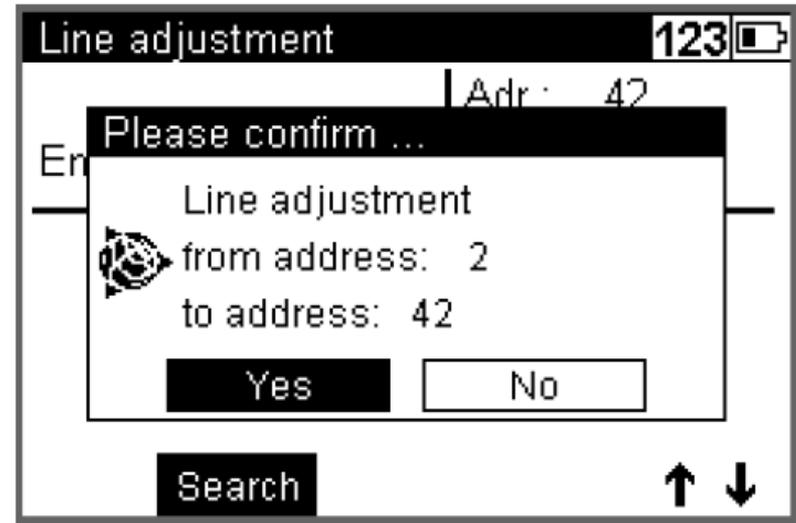
Line number: ? ? Point number
? ? Point code
? ? Memory adr.

Data view Prj: jena0001 123

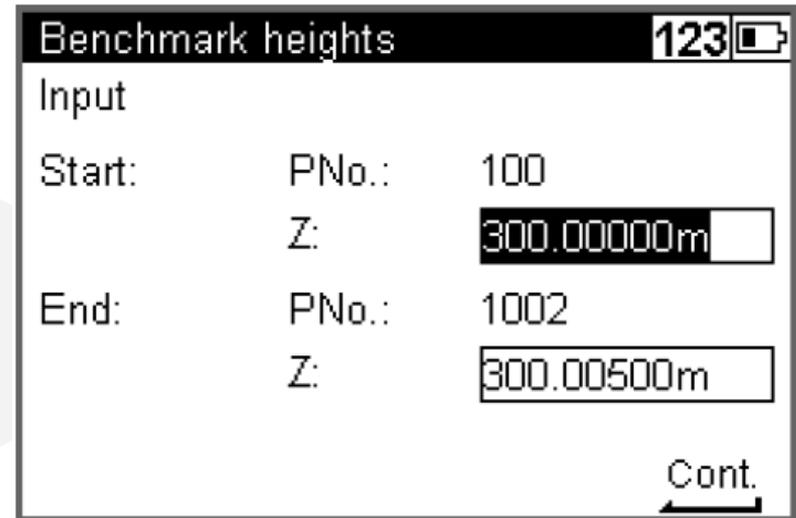
| | | |
|------------|----|----------|
| Start-Line | BF | Adr.: 2 |
| | | LNNo.: 1 |

Search Accept ↑ ↓

- Press Yes once you have confirm the line number



- It will show you the value for your start and end benchmark height



- Key in code – ex:
adjust – select
cont.

Point code ab

Input point code:

Code:

Cont.

- It will show you
the difference of
line

Differenz of line 123

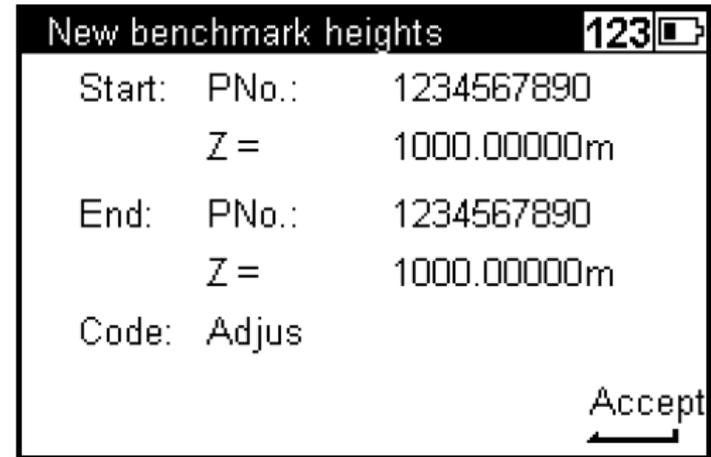
Difference of line (nominal - actual):

old: dz = -0.10000m

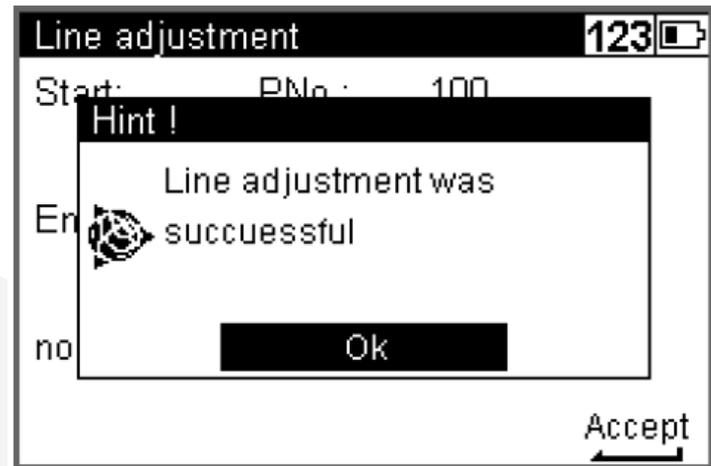
new: dz = -0.10200m

Accept

- Press Accept



- A message will pop up showing your line adjustment result



THANK YOU