

RL-100 2S



Operating instructions

Quick Guide

Function 1

● Inputting grade into laser



- (A) Turn the instrument body on the tripod to roughly align the instrument to the direction of the gradient with the X or Y axis, to give the desired positive or negative grade.



- (B) Push the green button and the instrument will start to self-level. (C) Push the red X/Y button to select which axis is to be inputted.



- (D) The first counter will flash to indicate whether a positive or negative grade is being inputted. This can be changed by pressing the up or down arrowed buttons.



- (E) Using the right and left arrowed buttons you can scroll across and input a grade on the flashing counter (D) using the up or down arrowed buttons.



- (F) Continue with this process until the desired grade has been set then press the blue enter button to input the grade into the laser.

– By repeating the procedure in the other axis, a dual slope can be inputted.

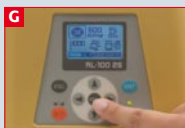


Note:

The RL-100 2S has a dual slope grade range of -10% to $+10\%$ in the X axis and -5% to $+25\%$ in the Y axis.

Function 2

● Setting head rotation speed



- (B) Push the green button and the instrument will start to self-level.

- (G) Push the menu button and the main function display will illuminate.



- (H) Now scroll across using right and left arrowed buttons until the RPM is Hi-lighted now push the blue enter button and the RPM head rotation speed will flash.



- (I) By pushing the up and down arrowed buttons, the head rotation speed can be changed.

- (F) To input the speed setting into the laser, press the blue enter button.



- (J) Push the escape button to return to the Y axis Gradient display.

Note:

For normal operation, set head rotation speed to 600 rpm.

Function 3

● Masking laser beam using electronic shutters



- (B) Push the green button and the instrument will start to self level.



- (G) Push the menu button and the main function display will illuminate with the masking image Hi-lighted.



- (K) Now push the enter button and the centre of the masking image will flash.

- (L) If required the masking faces of windows can be changed to corner by Pressing the red Y button.



- (M) In either masking modes, the electronic shutters can be selected by pressing one of 4 arrowed buttons.


- (N) After the window masking has been selected, press the blue enter button to input masking into the laser.

- (J) Push the escape button to return to the Y axis Gradient display.

SPECIFICATIONS*

| INSTRUMENT | RL-100 2S |
|--------------------------------|------------------------------|
| Repeatability | 5 arc sec. |
| Horizontal Accuracy | ±10 arc sec. |
| Grade Range | ±10 / -5 to +25 (dual) |
| Working Range | 770 m |
| Rotation Speed | 300/600/900 rpm |
| Wave Length | 685 nm visible |
| Laser Class | 3R |
| Operating Hours | 65H (Alkaline) / 50H (Ni-MH) |
| Environment | IPX6 |
| Dimensions (w x h x d) | 217 mm x 253 mm x 168 mm |
| RC-400 (Remote Control) | |
| Range | two-way 300 m |
| Environmental | IPX6 |
| Power | 3 AA alkaline |
| Dimensions (w x h x d) | 60 mm x 155 mm x 35 mm |
| LS-80A (Receiver) | |
| Receiving Range | 770 m |
| Environmental | IPX6 |
| Power | 2 AA alkalines |
| Operating Hours | 120 |
| Dimensions (w x h x d) | 76 mm x 145 mm x 23 mm |

* all technical changes are reserved by TOPCON, 03/2009

 Please pay attention to the warning notice in the original instruction manual

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