

### SPECIFICATIES\*

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
<b>RC-400 (Remote Control)</b>	
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
<b>LS-80A (Receiver)</b>	
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

### The leader in positioning technology

Topcon is the worldwide leading developer and manufacturer of precision positioning equipment. We offer the widest selection of innovative precision GPS, laser, optical, surveying, machine control, GIS and agricultural positioning solutions.



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**Operating instructions**

**Quick Guide**

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## Function 1

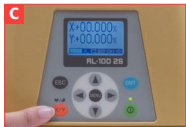
### ● Inputting grade into laser



● (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.



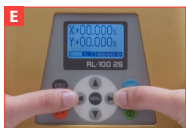
● (B) Push the green button and the instrument will start to self-level. (C) Push the red X/Y button to select which axis is to be inputted.



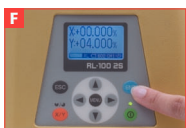
● (D) The first counter will flash to indicate whether a positive or negative grade is being inputted. This can be changed by pressing the up or down arrowed buttons.



● (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.



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.

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

## 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.