

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
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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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.



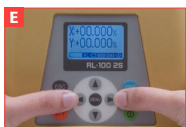
● (B) Push the green button and the instrument will start to self-level. (C) Push the red X/Y button to select which axis is to be inputted.



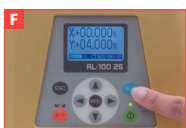
● (D) The first counter will flash to indicate whether a positive or negative grade is being inputted. This can be changed by pressing the up or down arrowed buttons.



● (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.



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.