TOPCON

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	217 mm x 253 mm x 168 mm (w x h x d)
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-80B (Receiver)	
Receiving Range	770 m
Environmental	IPX6
Power	2 AA alkalines
Operating Hours	120
Dimensions	76 mm X 145 mm X 23 mm (w x h x d)

* all technical changes are reserved by TOPCON, 01/2008

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

KEMA CERTIFICATE
ISO 9001:2000
DUTCH COUNCIL FOR ACCREDITATION C 013

CE

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RL-100 2S

5 YEARS TOPCON GUARANTEE

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.

- – 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.