

RL-H4C



3 in One!



Operating instructions

Quick Guide

Function 1

■ The Laser Levelling Controls



- (A) Push the green ON button. The instrument will start levelling. After it has levelled it will start rotating.



- (B) If the instrument is disturbed or jarred the height alert warning will switch off the laser and all the lights will flash on the control panel. If this happens switch the power OFF and ON to restart the instrument.



- (C) If you do not want the height alert feature, push the height alert OFF button twice and the red light will illuminate.

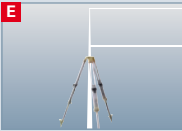
- (D) If you require to override the instrument self levelling system, push the manual ON button twice and the red light will illuminate.



- (A) To return the instrument to its original settings Press the power button OFF and then ON.

Function 2 & 3

■ Aligning the Laser in the Direction of the Grade



- Put a plumb ranging pole at the far end of the base line to sight on to.
- (E) Set the laser over the near end of the base line using a plumb bob hung from the instrument mounting screw.



- (F & G) Whilst viewing through the gun sight on the top of the laser precisely align on to the ranging pole and tighten the mounting screw.

■ Setting Slope into the Laser



- (A) Push the green ON button. The instrument will start levelling. After it has levelled it will start rotating.
- Have someone hold a staff with a sensor plumb and still at a known distance, e.g. 30 m from the laser along the base line and set the sensor on grade.



- Now move the sensor up or down on the staff to the required slope. E.g. 30 cm will give a 1% grade at 30 m. Hold the staff plumb and still.



- (H) On the laser push one of the red slope buttons once and the green light will flash whilst the laser beam goes up or down in the direction for the desired slope.
- (J) When the sensor beeps, push one of the red slope buttons, the laser will stop sloping and the green slope light will remain on.
- (H) Now press the required slope button, inching the beam until you hear a continuous beep from the sensor indicating that the beam has reached the desired grade.

Function 4

■ Setting Laser to Match Ground Slope



- (A) Push the green ON button. The instrument will start levelling. After it has levelled it will start rotating.
- (L) Have someone hold a staff and sensor approx. 1m in front of the laser on the base-line and set the sensor to on grade.
 - Now move staff down the base-line (do not move the sensor on staff) and hold staff plumb and still.
- (H) On the laser push one of the red slope buttons once and the green slope light will flash whilst the laser is going up or down to the slope of the ground.
 - Once you hear the sensor start to beep push one of the red slope buttons and the laser will stop sloping. The green slope light will remain on.
- (H) Push the required slope button, inching the beam until you hear a continuous beep from the sensor, indicating the laser has reached the on grade position.



- **Retaining slope (K)**
If you wish to retain the grade setting when you switch the instrument off, hold down one of the slope buttons whilst pressing the power button when restarting the instrument.



SPECIFICATIONS*

Instrument	RL-H4C
Beam type / power	red (visible diode) / 2.0mW (max.)
Operating range (radius)	400m
Accuracy	1.5 mm per 30m
Self-leveling range	±5°
Rotation speed	600 rpm
Power	Rechargeable battery
Battery life	approx. 60 hrs
Waterproof	IP66
Dimensions / Weight	177 x 196 x 217 mm / 2,6 kg
Laser Receiver	LS-80L
Grade information channels	11 (+high/low out of range)
On-Grade precision	High precision: ±1 mm, Normal precision: ±2 mm
Audible on-grade alarm	Yes
Power	9 Vdc alkaline
Battery life	Approx. 120 hrs
Auto shut-off	After 30 minutes w/o beam detection

* all technical changes are reserved by TOPCON, 03/2011

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