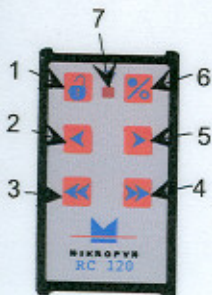


## MLP120 PANEL



- A: Display:** Shows slope, turns off after a while to conserve battery power
- B: Line control:** Moves spot to the left, or moves the cursor at the display
- C:** Decreases slope
- D:** On / Off switch
- E:** Increases slope
- F: Line control:** Moves spot to the right, or moves the cursor at the display

## RC120 PANEL

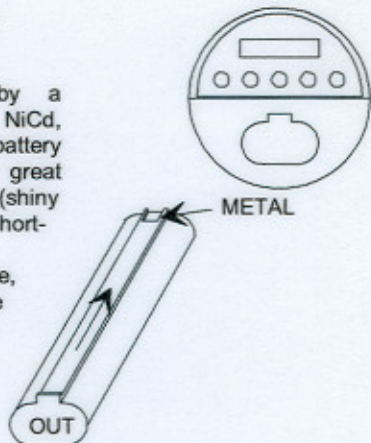


- 1:** Unlocks laser
- 2 & 5:** Line control, slow.
- 3 & 4:** Line control, fast.
- 6:** Standby On / Off
- 7:** Transmission signal lamp, blinks when transmitting data from RC120 to laser

## BATTERY:

MLP120 is powered by a rechargeable battery (7.2V NiCd, MAKITA type). This type of battery should always be treated with great care so that the battery poles (shiny metal pieces) will not be short-circuited.

When the battery is not in use, place it in the carrying case. the battery must not be kept in the laser instrument for more than a couple of days.



**CHARGING:** Connect the charger to an AC outlet.

After approx 1 hour the battery is fully charged, the red indicator lamp at the charger turns off, when the battery is charged.

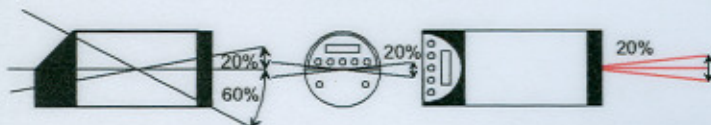
**NOTE:** To improve the lifetime of the battery, it is recommended to discharge the battery fully, from time to time.







To insert the battery, first unscrew the two finger screws at the battery lid, then insert the battery with the negative pole upwards, and the poles toward the instrument.

The battery should slide in easily, except for the last 1 cm (1/2"). It is important that no violence is used for inserting the battery.

**NOTE:** To ensure that it will keep out water from the battery compartment, inspect that the battery cover and gasket are OK (clean and dry). If flooded, dry the laser without battery and lid at max. 50°C (122°F).

## OPERATING:





- 1 : Insert battery and tighten lid.
- 2 : Turn on the power switch of the instrument, MLP120 displays the set slope.
- 3 : Select the desired slope,  increases the slope,  decreases the slope,   is used to move the cursor. 10 sec. after the last key is touched, the display turns off, and the slope is activated. To turn it on again, touch the  or  key.
- 4 : MLP120 may now (optionally) be turned off, as it remembers the slope that has been set.
- 5 : Place MLP120 at the workplace, the body of the instrument should be horizontal within  $\pm 10\%$ .



If the automatic cross axis compensation of the MLP120 is out of range, this symbol is displayed (like the bubble in a carpenter's level).

- 6 : The display shows CALXX (XX is a number from 0 to 10) for a 0 -30 sec. period. If the instrument is placed on moving / shaking ground, CAL10 is displayed continuously.
- 7 : MLP120 is now locked on a more narrow cross angle ( $\pm 1\%$ ).

### Line control:

Line control can be done using the keys   which will move the beam at a speed of 10 cm(4") / sec at a distance of 100m (320Ft).

While the beam is moving, the display shows these symbols:



LEFT END STOP



CENTRED



RIGHT END STOP

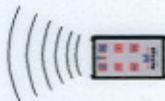
The flashing line shows direction of movement.

The two non-flashing lines indicates the beam position relative to the laser.

### BY REMOTE CONTROL:



Approx 20M (60Ft).



Approx 100M (320Ft).

To use the remote control, it is necessary to *unlock* the laser by pressing the lock symbol. The beam will flash at a high frequency, indicating that it is possible to use the remote control, this continues for 20 sec.



stepwise movement 1mm (0.04") at 100M (320Ft)



continuous movement 10mm (0.4")/sec. at 100M (320Ft)




The range of the RC120 may vary from 50M (150Ft) to 250M (800Ft), dependent on the background light level.



The instrument is self calibrating. If the number is constantly 10, the instrument has been placed too unstable.

The line control of the instrument is operated either by keyboard or by remote control.

Slope may be changed, select digit with  

(Weaker light) Normal operation.

Battery voltage is low, beam flashes quickly. There is enough capacity for 2 - 4 hrs. all movements are slowed down.

Endstop. The laser has exceeded the automatic levelling range. The automatic levelling has been stopped and the laser flashes slowly.

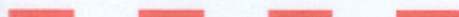
15 Sec. after it has been switched off, the slope counter moves to neutral position.

**HOT** The laser has become too warm. The beam output is reduced in order to extend the lifetime of laser diode.

## BEAM



LEVEL OK



LEVEL NOT OK



LEVEL OK, BATTERY  
VOLTAGE IS LOW.



REMOTE CONTROL HAS  
UNLOCKED THE LASER.