

Instructions for Jumbo® garden thermometer

Jumbo® garden thermometer with solar lighting

Please read these operating instructions carefully before installing and operating the jumbo thermometer.

Technical details:

- The power source consists of built-in rechargeable Ni-Cd batteries (6 V / 1.3 Ah).
- The power consumption is 0.72 Watts with 6 V operating voltage.
- The light source is a 4 W fluorescent tube rated for 6 V /120 mA 15 Lux at 1 foot.
- The service life of the battery is approx. 3 years.
- The service life of the fluorescent lighting tube is longer than one year when treated properly.
- The solar cell surface consists of a high power CRYSTAL solar panel.
- The solar energy pickup is approx. 1.5 W in full sunshine.

Mounting and operation:

1. Commencing operation

Before setting-up your jumbo garden thermometer, first fully charge the accumulator battery once using the provided adapter.

2. Choice of location

The performance of the solar lamp depends greatly on the solar radiation received, therefore select a location which is exposed to daylight and sunlight as brightly as possible. The solar panel should be orientated as nearly horizontal as possible. The operating time of the lamp may be reduced after short Winter days or after strongly overcast days. However, you can always still recharge the accumulator battery with the mains adapter. When you have chosen the final location, it is advisable to fix the foot of the thermometer with some concrete to protect the device against theft or collapse in strong winds.

3. Switch setting

The solar section is equipped with a light sensor. In the switch setting ,AUTO' the lamp switches-on automatically at dusk. In the switch setting ,OFF' the lamp does not switch on but nevertheless takes in electric power. Always use the switch setting ,OFF' when recharging the battery with the mains adapter.

4. Subsequent charging with the mains adapter

When you wish to recharge your jumbo garden thermometer subsequently with the mains adapter, you can easily remove the solar panel from the thermometer by holding the solar lamp at plastic lampshade and turning the solar panel in the anticlockwise direction. Then lift-off the solar panel with the fluorescent lighting tube, taking care not to break the latter.

Now plug the adapter into the underside of the solar panel and connect the adapter to a 220 V AC mains power outlet. When plugging the charged solar panel back onto the thermometer, make sure that the solar panel latches correctly into the lampshade.

5. Replacing the accumulator batteries and the fluorescent lighting tube

a. Fluorescent lighting tube

Take off the solar panel as described under 4. Set the switch to the ,OFF' position. Then turn the fluorescent lighting tube through 90 degrees and pull the tube out of its socket. Insert a new tube correspondingly.

b. Accumulator battery

Release all 6 screws of the underside of the solar panel using a suitable screwdriver and then pull-off the underside of the covering. Using a soldering iron, carefully unsolder the battery connecting wires at the battery contacts. Solder the wires to the contacts of a new battery (6 Volts/1300 mAh). Solder the red wire to the (+) contact and the black wire to the (-) contact. Then insert the new battery and carefully screw the cover back on. Now charge the new battery with the mains adapter and then plug the solar panel back onto the lampshade (Fig.2).

Important: Old batteries must only be disposed of by taking them to an official old battery collecting point!

6. Fault tracing

If you have observed all points described above but your instrument nevertheless does not function correctly, please check the following points:

- a. Check whether the solar cell is broken or damaged. The solar cell has been checked and tested several times before despatch and does not fall under general warranty.
- b. Move the switch several times between ,AUTO' and ,OFF'.
- c. No light (e.g. from a second lamp) is falling onto the light sensor.
- d. If the instrument still does not function properly, charge the battery again with the mains adapter (switch setting ,OFF') or leave the instrument exposed to sunlight for several days.

Old batteries must be taken to all official collecting point and not thrown into the household rubbish bin!

The warranty of 6 months becomes void in the case of improper treatment.