

A newly designed, solar powered tap timer for garden watering.

Your Sun Boss Solar Powered Tap Timer gives you the convenience of never having to replace the battery (provided the unit is located where it can get plenty of direct sunlight). The programmable timer controls water flow using an internal solenoid valve.



Key Features

Easy to install and program
Set up to 6 different automatic watering cycles
Conveniently removable Programming Unit
Altaches directly to your garden top

Program Demo

In this mode, the details of all programs are displayed.

- 1. Press the Menu button repeatedly until DEMO PROG flashes.
- Press OK and all set programs (start time, watering duration and skipped days) will be displayed sequentially, starting with P1.

Turning Off the Timer

If the timer is not required for a long period of time, it may be turned off to conserve battery energy, whilst retaining the time and date and all watering programs.

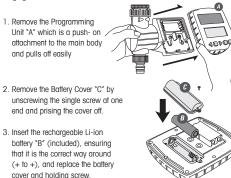
- 1. Press the $\frac{Meno}{C}$ button repeatedly until **TURN OFF** flashes. Press CK to turn off the timer and **OFF** will be displayed.
- 2. To turn the timer on again, press the Menu button once. WAKE UP will flash. Press OK to turn on the timer and resume all stored programs.

Resetting the Timer

Press the $[Mem_{D}]$ button repeatedly until **RESET** is displayed. Press $[\infty]$ and **SURE** will be displayed. Press $[\infty]$ again to delete all watering programs. The current time and date are not affected.

Installing the Battery

The Sun Boss uses a rechargeable battery which is charged by the sun. Typically, two hours of direct sunlight will provide enough energy to power the timer for two weeks. A fully charged battery will power the timer for about one month without recharging.



- 4. Push the Programming Unit back onto the main body of the timer. PRESS MENU will flash on the display.
- Press the Menu button and then the Menu button and check that MANUL ON and 001 are flashing. This verifies that the battery has been inserted correctly and that the timer is working.
- 6. Also displayed is a battery symbol which shows the state of charge of the battery. The symbol diadcates that the battery is flat. The symbol = diadcates a fully charged battery. If the battery does not show some level of charge, it will be necessary to put the Sun Boss in direct sunlight until the battery is sufficiently charged to power the timer.

Manual Watering

To manually water outside the programmed automatic watering cycles, press the Man. button which causes **MANUL ON** and **001** to flash. Use the **◄** and **▶** buttons to set the required manual watering time (up to 120 minutes) and press or to start watering after a short delay.

Care and Maintenance

- 1. Only use the supplied rechargeable 3.7V Li-ion battery.
- 2. Ensure that the Programming Unit is pushed firmly onto the body of the timer.
- 3. Periodically clean out the filter mesh in the timer water inlet as accumulated debris from the water supply will reduce water flow.
- 4. Do not disassemble the timer. Doing so will void all warranties.
- To prevent corrosion, always remove the battery when the timer is not in use for long periods of time.

Using the Sun Boss Timer

The timer must be fitted to a tap so that it stands vertical, in a location where plenty of direct sunlight can fall on the solar panel.

- 1. After programming the timer, push the Programming Unit back onto the timer body.
- 2. Fit the Sun Boss to your garden tap. For ¾" (20mm) taps, use the supplied adaptor. Hand tighten the connections but do not over tighten. Do not use tools to tighten.
- Attach a hose and turn on the water. Leave the water turned on. The Sun Boss solenoid valve will control the water flow to the hose.
- 4. If the battery goes flat and cannot power the timer, the solenoid valve will close automatically.

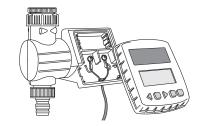
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Setting Time and Date

- 1. Press the Meno button which will cause **TIME SET** to flash. Press ⊙K which will cause **HOUR SET** to flash. Note that the Sun Boss uses 24 hour time, so 1:00pm is displayed as 13:00.
- 2. Use the ◀ and ▷ buttons until the correct hour is displayed and press or to set the hour. This will cause **MIN SET** to flash.
- 3. Use the ◀ and ▶ buttons until the correct minute is displayed and press imes to set the hour. This will cause DAY SET to flash.
- Use the ◀ and ▷ buttons until the correct day of the week (Su, Mo, Tu, We, Th, Fr or Sa) flashes and press (or K) to set the day. This will cause PROG SET to flash.

Rain Sensor

The timer is compatible with a "normally closed" rain sensor (electrical contacts open when rain is sensed), such as those made by Toro and Hunter. The external rain sensor (not supplied) must be connected to the Sun Boss timer. Pull the Programming Unit off the body of the timer, to reveal the two connection points.



In order to use the Rain Sensor function, it must be turned on.

- 1. Press the Menu button repeatedly until **SENSOR** is displayed.
- Press or and OFF will flash. To turn the Sensor function on, use the ◀ or ▷ button to toggle the display to ON. Press or to confirm the selection and RAIN will be displayed.
- 3. To turn off the Rain Sensor function, press the Menu button repeatedly until SENSOR is displayed, press OK then use the ◀ or ▷ button to toggle the display to OFF and press OK to confirm the selection.

Programming Watering Cycles

- Up to six different and independent watering programs can be set (P1 to P6).
- 1. Press the Menu button repeatedly until PROG SET flashes.
- 2. Press or and PROG SET, P1 and ON will flash. If you now press or, you will move to the next step in programming P1. However, if you want to skip programming P1, press or and PROG SET, P1 and OFF will flash. If you now press or, the program P1 will be skipped and P2 and ON will start flashing.
- 3. To program P1, with **ON** flashing, press or and **START TIME** and the hour will flash. Use the ◀ and ▷ buttons until the hour of the required start time is displayed and press or to set the hour. This will cause the minute to flash.
- Use the ◀ and ▷ buttons until the minute of the required start time is displayed and press or to set the minute. This will cause HOW LONG to flash.
- Use the ◀ and ▷ buttons to set the number of minutes of watering time you require (up to a maximum of 120 minutes), and press or to set watering duration. This will cause SKIP DAY to flash.
- 6. Use the ◀ and ▷ buttons to select the number of days to skip watering (up to a maximum of 6 days). For example, skip 0 days will water every day, skip 1 day will water every second day and skip 6 days will water once per week. Press or to set the number of days to be skipped. This will cause P2 and ON to flash.
- 7. To program P2, P3, P4, P5 and P6, repeat steps 2 to 6.
- 8. After programming all 6 programs, DEMO PROG will flash.

Performance Specifications

- Recommended water pressure: 150 kPa to 800 kPa. In areas with water pressure greater than 800 kPa, use a pressure reducer on the tap.
- 2. Water source: cold mains water only. This product is not suitable for use:
- If you use bore or unfiltered water
- If you use any kind of pump to draw water
- If you use any liquid that is flammable, explosive or corrosive If the water supply is unstable.
- Recommended operating temperature range: 4°C to 60°C. The tap timer should not be subjected to freezing temperatures or frosts.
- 4. Battery: 1 x 3.7V Li-ion rechargeable battery (included)

Troubleshooting

If watering is not occurring when expected:

- 1. Check that the tap is turned on.
- 2. Check that the SUN BOSS is not set to TURN OFF mode.
- Check that the Programming Unit is firmly pushed onto the main body of the timer. If it is not, the error message CON BAD will flash when the timer attempts to turn on.
- 4. Use Program Demo mode to verify that the programs P1 to P6 are set and correct.

1. Press the Menni button m pack 2. Press Or and **PROG S** OK, you will move to