

GARDENA Water Computer EasyControl



Translation of the original instructions from German.

Please read these operating instructions carefully and observe the notes given. Use these instructions to familiarise yourself with the Water Computer and its proper use as well as the notes on safety.



For safety reasons, children and young people under 16 as well as anyone who is not familiar with these operating instructions should not use the Water Computer. Persons with reduced physical or mental abilities may use the product only if they are supervised or instructed by a responsible person. Children must be supervised to ensure that they do not play with the product.

→ Please keep these operating instructions in a safe place.

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1. Where to Use Your GARDENA Water Computer

Intended use:

The GARDENA Water Computer is intended for private use in domestic and hobby gardens, exclusively for outdoor use, to control sprinklers and watering systems. The Water Computer can be used for automatic watering during holidays.

Please note:



The GARDENA Water Computer must not be used for industrial purposes or in conjunction with chemicals, foodstuffs, easily flammable and explosive materials.

2. Safety Instructions

Battery:

To ensure the Water Computer runs safely, only a 9V alkaline manganese battery (alkaline) type IEC 6LR61 must be used.

In order to stop the Water Computer from failing because of a weak battery if you are away for a long time, the battery must be replaced when the battery symbol flashes.

Setting up

The Water Computer may only be set up vertically with the sleeve nut to the top to prevent water penetrating into the battery compartment.

The minimum water output to ensure that the Water Computer functions correctly is 20 - 30 l/h.

For example, at least 10 x 2-litre Drip Heads are required to control the Micro-Drip-System.

At high temperatures (over 60 °C at the display) the LCD display may extinguish. This does not affect the program in any way. When the computer cools down the LCD display illuminates again.

The max. temperature for the water flow is 40 °C.

→ Only use clear fresh water.

The minimum operating pressure is 0.5 bar, the maximum operating pressure is 12 bar.

Avoid tensile strain.

→ Do not pull the hose connected to the Water Computer.

If the controller is removed when the valve is open, the valve remains open until the controller is fitted again.

3. Function

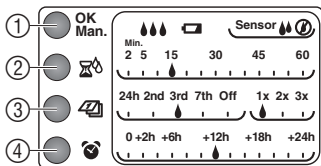
With the Water Computer, the garden can be watered fully automatically up to 3 times a day at any time of day (every 8 hours). Sprinklers, a sprinkler system or a drip head watering system can be used for watering.

The Water Computer carries out watering fully automatically according to the set program and can therefore also be used during holidays. Early in the morning or late in the evening, evaporation and therefore water consumption is lowest.

The watering programme is easily entered using the controls.

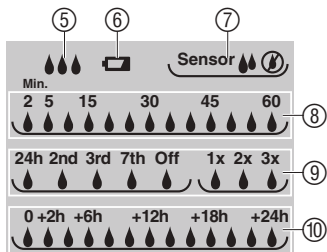
A watering program comprises the watering duration, cycle and start time.

Controls:

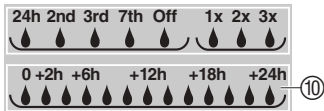


Buttons	Function
① OK-button	Applies the values set with the ---buttons.
Man.-button	For switching the water throughput on or off manually.
② - button	Changes the watering duration.
③ - button	Adjusts the watering cycle.
④ - button	Delays the watering start time.

Display



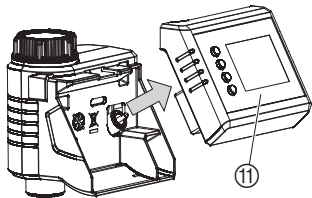
Display	Description
⑤	Flash consecutively whilst watering is carried out.
⑥	Flashes when the battery needs to be replaced. The valve is still opened for 4 weeks. Is continuously displayed when the battery is empty. The valve is not opened any more. Replace battery (see 4. Putting Your Water Computer into Operation “Insert battery”).
⑦ Sensor	Indicates that the sensor registers dry and the programmed watering is carried out. Sensor Indicates that the sensor registers wet and the programmed watering is not carried out (see 4. Putting Your Water Computer into Operation “Connect soil moisture or rain sensor”).
⑧	Watering duration (flashes when in input mode).
⑨	Watering cycle (flashes when in input mode).



- ⑩ Start time delay (💧 flashes when in input mode).
Displays the remaining time until the program start.

4. Putting Your Water Computer into Operation

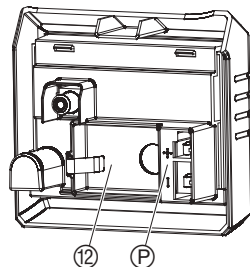
Insert battery:



The Water Computer must only be operated with a 9 V alkali-manganese (alkaline) battery type IEC 6LR61.

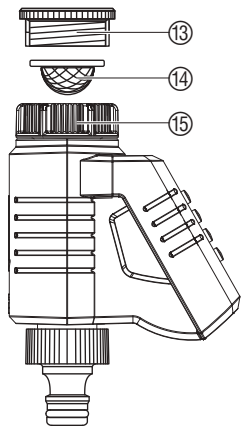
1. Remove controller ⑪ from the housing of the Water Computer.
2. Insert battery in the battery compartment ⑫. **Observe correct polarity P.**

The display shows all LCD symbols for 2 seconds and then the 💧 symbol for watering duration flashes (see 5. Programming).



3. Install controller ⑪ on the housing again.

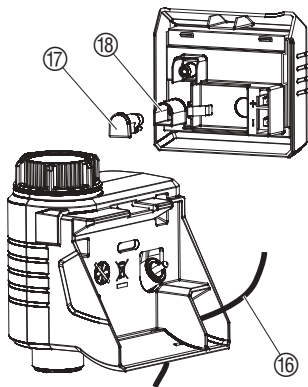
Connect Water Computer:



The Water Computer is fitted with a sleeve nut ⑮ for taps with (G 1") (33.3 mm) thread. The adaptor supplied ⑬ allows the Water Computer to be connected to taps with a (G ¾") thread (26.5 mm).

→ Insert the filter ⑭ into the sleeve nut ⑮ and connect the water computer to the tap.

**Connect soil moisture
or rain sensor (optional):**



Apart from scheduled watering there is also the option of including how damp the soil is or rainfall into the watering programme.

Note:

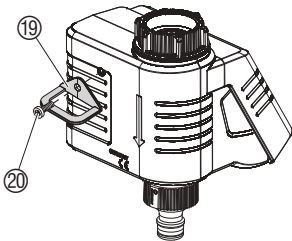
If the soil is damp enough, the programme will be stopped, or a programme will be prevented from starting. Manual operation is possible at all times.

1. Remove controller ⑪ from the housing of the Water Computer (see 4. Putting Your Water Computer into Operation “Insert battery”).
2. Place soil moisture sensor **in** the watered area – **or** – place rain sensor (with extension cable if necessary) **outside** the watered area.
3. Run the sensor cable ⑯ through the opening of the housing.
4. Disconnect the cover ⑰ and insert the sensor cable ⑯ plug into the sensor connection ⑱ of the water computer.

It can take up to 1 min. until the status of the sensor is shown on the display.

An adapter cable may be required to connect older sensors, which can be purchased from GARDENA Service, **GARDENA Adapter cable Art. No. 1189-00.600.45.**

**Fit anti-theft device
(optional):**



To secure your Water Computer against theft, you can obtain the **GARDENA Anti-theft device Art. No. 1815-00.791.00** from GARDENA Service.

1. Tightly screw the clamp ①⁹ complete with the screw ②⁰ into the circular groove on the rear of the water computer.
2. Use clamp ①⁹ e.g. for fixing a chain.

It is no longer possible to remove the screw after it has been screwed in.

5. Programming

Tip: → Program the Water Computer with the tap turned off.
In this way you can avoid getting wet.

Enter watering program:

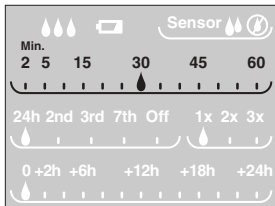
To set the programme, the controller can be removed and mobile programming can be carried out (see 4. Putting Your Water Computer into Operation “Insert battery”).

After the battery has been inserted, all program steps are automatically selected consecutively until a complete watering program has been entered.

If no program has been entered for 10 min., the watering cycle switches to “Off”.

Set watering duration:

The watering duration can be set between **2** to **60** minutes (at 5 minute intervals).



1. Press button.

The symbol flashes under the current watering duration.

2. Press button until the desired watering duration is set (example: **30** minutes).

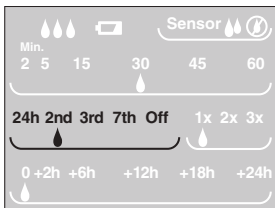
3. Press **OK** button.

The watering duration is stored.

Setting the watering cycle (day / frequency):

The watering days can be set to between daily (**24h**) and every 7 days (**7th**) and the watering frequency can be set to **1x** (every 24 hours), **2x** (every 12 hours) or **3x** (every 8 hours) respectively on the watering day.

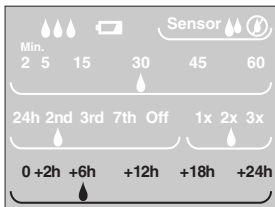
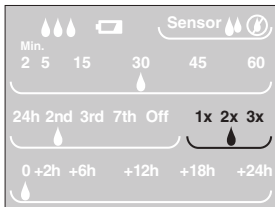
The watering program is not carried out when the knob is set to **Off**.



1. Press button.

The symbol flashes under the current watering days.


2. Keep pressing the button until the desired watering days have been set (example: **2nd** = every other day).



Important information:

3. Press **OK** button.

The  symbol flashes under the current watering frequency.

4. Press  button until the required watering frequency is set (example: **2x** = twice in 24 hours).

5. Press **OK** button.


The watering cycle is stored.

Setting the start time delay:

The start time can be delayed for up to 24 hours (the watering is carried out respectively at a later time). At the start time (**0**) watering is carried out immediately (the valve opens immediately).

1. Press  button.

The  symbol flashes under the current delay duration.

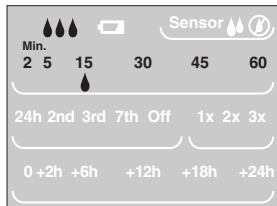
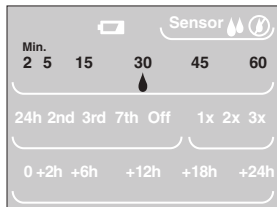
2. Press  button until the desired delay duration is set (example: **+6h** = Watering 6 hours later).

3. Press **OK** button.

The delay duration is stored.


If the watering days are set to off, the watering program is deactivated and neither the watering duration nor the start time delay can be modified. However, manual watering is still possible. In order to reactivate, select watering days that are not set to **off**.


Manual watering:



The valve can be **opened or closed manually at any time**. A program-controlled open valve can also be closed early without changing the program data (Watering duration, cycle and start time). The controller must be fitted.

1. Press **Man.** button.

The  symbol flashes under the current watering duration (preset to 30 minutes at the factory) for 10 seconds on the display.

2. Whilst the water duration is flashing, it can be modified with the  button (between **2** and **60** minutes) (example: **15** minutes) and confirmed with the **OK** button.

The valve is opened.

3. Press **Man.** button to close the valve early.

The valve is closed.

The adjusted manual watering duration is saved and is independent from the watering duration in the program, i.e. the adjusted watering duration is preset for each future manual valve opening.

If the valve has been opened manually and a programmed start of watering period overlaps the manual opening period, the programmed start time is suppressed.

Example: The valve is **opened at 9.00 a.m. manually**, the opening period is 15 minutes. A program with a **start time between 9.00 and 9.15 a.m.** will not be executed in this case.

6. Putting your Water Computer out of Operation

Storage / Overwintering:



1. To preserve the battery, it should be removed (see 4. Putting Your Water Computer into Operation).

When the battery is inserted again in spring, the watering program must be newly entered again.

2. Store controller and valve unit in a dry place where they are protected from frost.

Disposal: *(in accordance with RL2002/96/EC)*



The product must not be added to normal household waste. It must be disposed of in line with local environmental regulations.

→ Important: Make sure that the unit is disposed of via your municipal recycling collection centre.

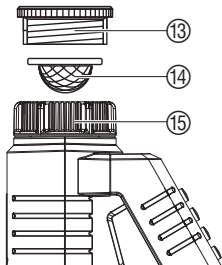
Disposing of flat batteries:

→ Please return flat batteries to a GARDENA dealer or dispose of them properly at your nearest recycling centre.

Only dispose of batteries when they are **flat**.

7. Maintenance


Clean filter:




The filter ⑭ should be checked regularly and cleaned when necessary.

1. Unscrew sleeve nut ⑮ of the Water Computer by hand from the tap thread (do not use pliers).
2. If necessary unscrew the adaptor ⑬.
3. Remove filter ⑭ from sleeve nut ⑮ and clean.
4. Fit the Water Computer again (see 4. Putting Your Water Computer into Operation “Connecting Water Computer”).

8. Troubleshooting

Fault	Possible Cause	Remedy
No display appears	Battery inserted incorrectly.	→ Check polarity markings match (+/-).
	Flat battery.	→ Insert new (alkaline) battery.
	Temperature on the display is higher than 60 °C.	Display appears after temperature has dropped.
Manual watering is not possible using the Man. button	Battery flat ( is continuously displayed).	→ Insert new (alkaline) battery.
	Tap turned off.	→ Turn tap on.
	Controller is not connected.	→ Mount controller on housing.
Watering program is not being undertaken (no watering)	Program entry/modification during or just before the start pulse.	→ Make program entry/modification outside the programmed start times.
	Valve was opened manually previously.	→ Avoid possible program overlaps.
	Tap turned off.	→ Turn tap on.
	Soil moisture or rain sensor registers damp.	→ If dry, check setting/location of soil moisture/rain sensor.

Fault	Possible Cause	Remedy
Watering program is not being undertaken (no watering)	Controller is not connected.	→ Mount controller on housing.
	Battery flat ( is continuously displayed).	→ Insert new (alkaline) battery.
Water Computer does not close	Minimum quantity of water drawn is less than 20 l/h.	→ Connect more drip heads.



In the event of other faults please contact GARDENA Service.
Repairs should only be carried out by GARDENA service centres or dealers authorised by GARDENA.

9. Available accessories

GARDENA Soil Moisture Sensor		Art. No. 1188
GARDENA Rain Sensor electronic		Art. No. 1189
GARDENA Anti-theft device		Art. No. 1815-00.791.00 From GARDENA Service
GARDENA Adapter cable	To connect older GARDENA sensors	Art. No. 1189-00.600.45 From GARDENA Service

GARDENA
Cable Adapter

For simultaneous connection of
rain and soil moisture sensor

Art. No. 1189-00.630.00
From **GARDENA Service**

10. Technical Data

Min./max. operating pressure: 0.5 bar / 12 bar

Operating temperature range: 5 °C to 50 °C

Flow medium: Clear fresh water

Max. liquid temperature: 40 °C

Number of program-controlled watering cycles per day: 3 x (every 8 hrs.), 2 x (every 12 hrs.), 1 x (every 24 hrs.)

Number of program-controlled watering cycles per week: Every day, every 2, 3 or 7 days

Watering duration: 2 min. to 60 min. (at 5 minute intervals)

Battery required: 1 × 9V alkaline manganese (alkaline) battery
type IEC 6LR61

Operating time of the battery: approx. 1 year

11. Service / Warranty

GARDENA guarantees this product for 2 years (from date of purchase). This guarantee covers all serious defects of the unit that can be proved to be material or manufacturing faults.

Under warranty we will either replace the unit or repair it free of charge if the following conditions apply:

- The unit must have been handled properly and in keeping with the requirements of the operating instructions.
- Neither the purchaser or a non-authorized third party have attempted to repair the unit.
- Faults which occur as a result of incorrectly installed or leaking batteries are not covered by the guarantee.
- Damage caused by frost is not covered by the warranty.

This manufacturer's guarantee does not affect the user's existing warranty claims against the dealer/seller.

If you have any problems with your Water Computer, please contact our Customer Service or return the defective unit together with a short description of the problem directly to one of the GARDENA Service Centres listed on the back of this leaflet.