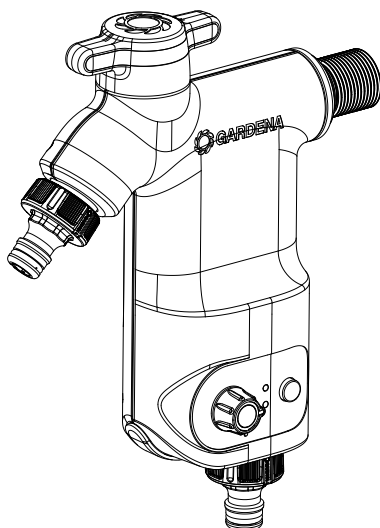


**Art. No. 16510**

DuoTap Automatic

**en** **Operator's manual**  
Irrigation computer

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## Translation of the original instructions



For safety reasons, children and young people under 16 as well as anyone who is not familiar with this operator's manual should not use the product. 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.

→ Do not use the product if you are tired, ill or under the influence of alcohol, drugs or medication.

# 1. Safety instructions

---

## 1.1 General safety instructions

### Important!

- Read the operator's manual carefully before use and keep for future reference

## 1.2 Additional safety instructions

### 1.2.1 Intended use

The **GARDENA Irrigation Computer** is intended for private use in domestic and hobby gardens and is only to be used outdoors to control MDS irrigation systems. It must not be used in industrial applications or in combination with chemicals, foodstuffs or flammable or explosive substances.

### 1.2.2 Safety instructions for batteries

- Keep the batteries away from children.
- Check the batteries regularly for damage.
- Do not use damaged batteries.
- Only use batteries of the same type, brand and state of charge.
- Replace the battery if the battery symbol is red or orange.  
*This prevents the irrigation computer from failing when not in use.*

## 1.2.3 Additional electrical safety instructions



### **DANGER!**

Risk of cardiac arrest!

This product generates an electromagnetic field during operation. This field can affect the functionality of active or passive medical implants and cause serious or fatal injuries (e.g. in the case of a pacemaker).

→ Consult your doctor and the manufacturer of your implant before using this product.

→ Mount the irrigation computer vertically on the union nut on the rain water tank.

*This prevents water from entering the battery compartment.*

## 1.2.4 Additional personal safety instructions



### **DANGER!**

Risk of injury!

Risk of injury and risk of damage to the product.

→ Do not use running water or a water jet (especially a high-pressure water jet) to clean the product.

→ Do not clean with chemicals, including petrol or solvents. Some can destroy critical plastic parts.

The temperature of the water flowing through must not exceed 30 °C.

Only use the product at an operating pressure of 2 to 8 bar.

→ Avoid placing tensile stress on the hose (do not pull on the connected hose).

## 2. Product description

---

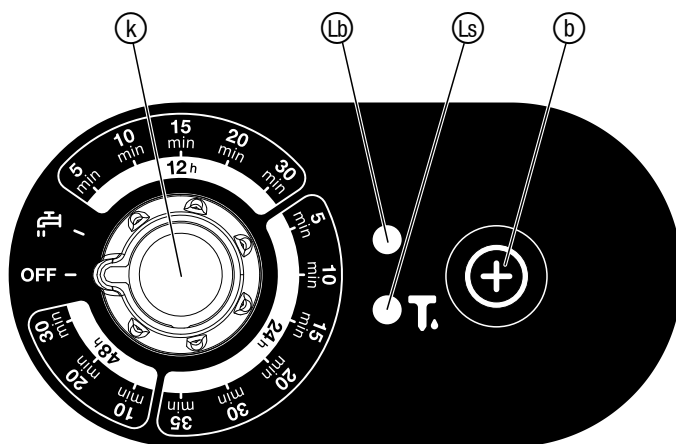
### 2.1 Batteries

The batteries are not included in the scope of delivery.

The battery life is approximately one year. The battery life can vary depending on ambient temperature and frequency of program use.

**Suitable batteries:** 1.5 V alkaline manganese (alkaline), type AA (IEC LR6).

## 2.1.1 LED display for the batteries



The colour of the LED  indicates the state of charge of the batteries.

| Colour  | State of charge | Action               |
|------------------------------------------------------------------------------------------|-----------------|----------------------|
| Green                                                                                    | Batteries OK.   | –                    |
| Orange (3 x every 10 sec)                                                                | Batteries low.  | → Replace batteries. |
| Red (3 x every 10 sec)                                                                   | Batteries flat. | → Replace batteries. |

### Note:

During manual irrigation, the LED  flashes two times at startup corresponding to the state of charge.

 Red: Batteries flat, the valve can no longer be opened. However, an open valve will be securely closed.

→ Do not remove the battery when irrigation is active, otherwise the valve's electrical connection will be interrupted and the valve will remain open.

## 2.2 DuoTap on rain water tank

The DuoTap is intended for installation on a rain water tank (not included in the scope of delivery).

The **GARDENA AquaReserve Rainwater Tank Art.No. 16500/16502** is recommended.

The water supply must be provided by an automatic pump (min. 2 bar outlet pressure, not included in delivery).

The **GARDENA Automatic Pump Art. No. 1766** or **GARDENA AquaReserve Battery Pump 2400 Automatic 18V P4A Art. No. 14606** are recommended.

The **GARDENA Battery Rainwater Tank Pump 2400 ComfortAutomatic 18V P4A Art. 14605** must not be used.

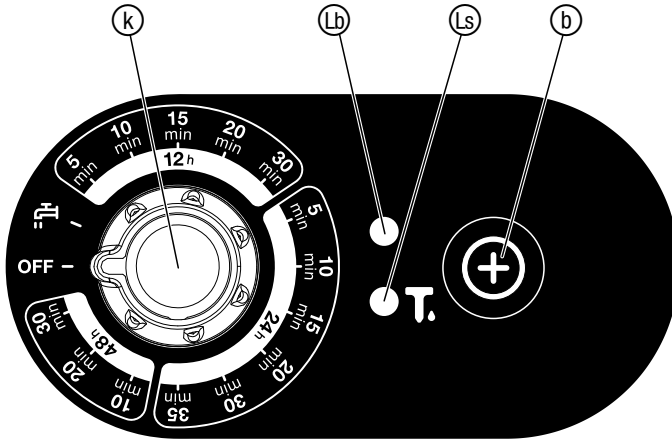
The **GARDENA Pump Connection Set Art. No. 16505** is recommended.

## 2.3 Soil moisture sensor

To incorporate soil moisture, the **GARDENA Soil Moisture Sensor Art. No. 1867** must be connected.

If the sensor detects moisture, automatic irrigation is disabled.

### 2.3.1 LED display for the soil moisture sensor



If the LED  flashes red three times, the soil moisture sensor battery is flat and must be replaced.

## 2.4 Operation

The DuoTap is equipped with a manual valve (tap) (t) and an automatic valve. We recommend not using both outputs at the same time.

### 2.4.1 Automatic irrigation

The flow rate for optimal functioning of the irrigation computer is between 80 and 160 l/h.

For optimal irrigation, we recommend a combination of 13 mm distribution pipe and 4.6 mm (3/16") application pipe. This allows an application rate of up to 160 l/h to be achieved.

If only a 4.6 mm (3/16") pot pipe/distribution pipe is used, a lower application rate is possible.

At flow rates below 80 l/h, irrigation is briefly interrupted at regular intervals.

→ **Remedy:** Connect more drippers to increase the flow rate and adjust the irrigation duration if necessary.

#### **Recommended Micro-Drip-Sets:**

- 1362-20 Drip tube 4.6 mm (3/16"), 15 m
- 13400-20 Drip irrigation set for terrace
- 13500-20 Drip irrigation set for hedges/bushes (25 m)
- 14455-20 Drip irrigation set for raised beds/flower beds

The irrigation program for automatic irrigation is selected using the rotary knob (k).

The **irrigation frequency** is selected using the **inner grey scale** in hours (h).

The **irrigation duration** is selected using the **outer black scale** in minutes (min).

## 2.4.2 Changing the start time

After a program has been selected, the start time can be adjusted in hourly increments within 3 seconds using the **(b)** button (max. +23 hours).

Each time you press the **(b)** button, the start time is postponed by one hour.

## 2.4.3 Child lock

The DuoTap can be protected against accidental operation by children (see “4.3 Activating/deactivating the childproof lock”).

## 2.4.4 Irrigation recommendations

The water requirements depend on:

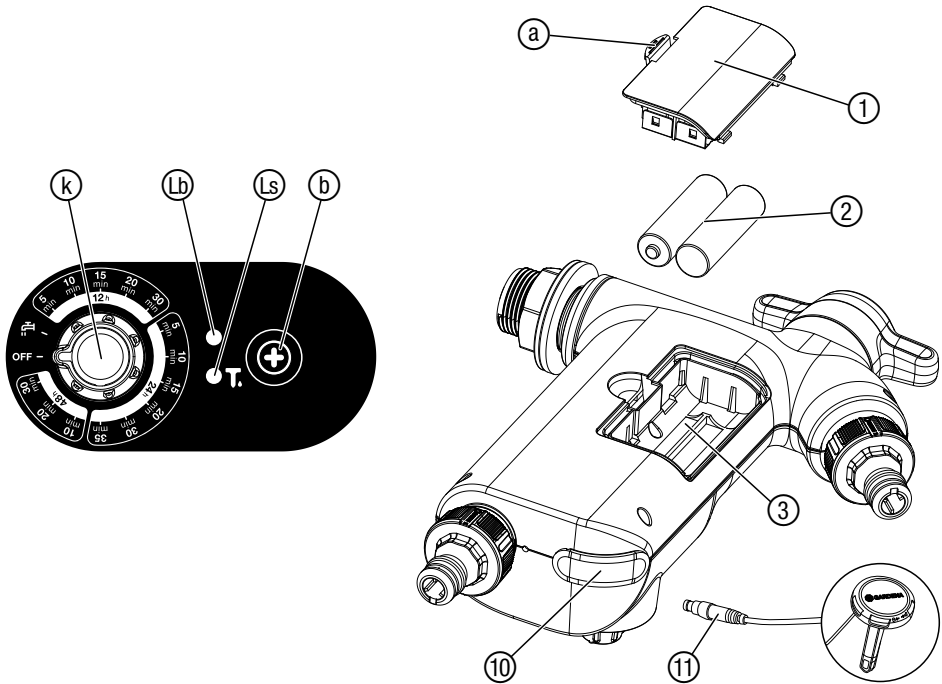
- Type and age of plants
- Root type (shallow/deep)
- Location (shady/sunny)
- Soil type (light/heavy)

| Plant type      | Irrigation system | Irrigation frequency |
|-----------------|-------------------|----------------------|
| Pot plants/beds | Micro-Drip-System | 12 – 24 hours        |
| Hedges/bushes   | Micro-Drip-System | 24 – 48 hours        |

## 2.5 Storage

The product is not resistant to frost (below 5 °C).

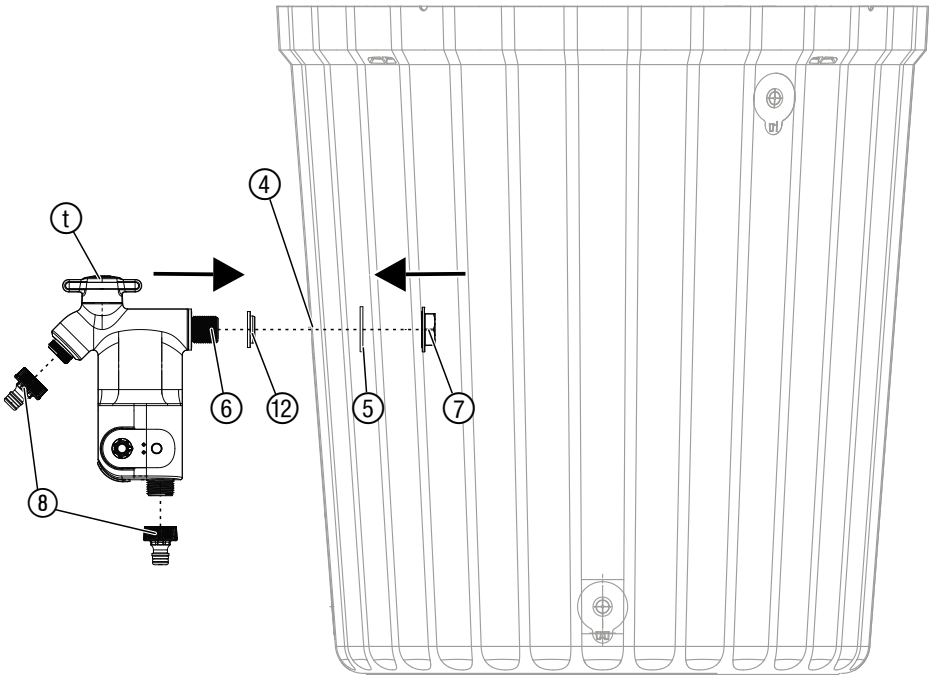
### 3.1 Inserting the batteries



1. Turn the rotary knob (k) to “**OFF**”.
2. Push the locking mechanism (a) and remove the battery cover (1).
3. Insert 2x AA batteries (2) into the battery compartment (3). Note the polarity +/–.
4. Replace the battery cover (1).

The LED  flashes green once. The irrigation computer is ready for operation.

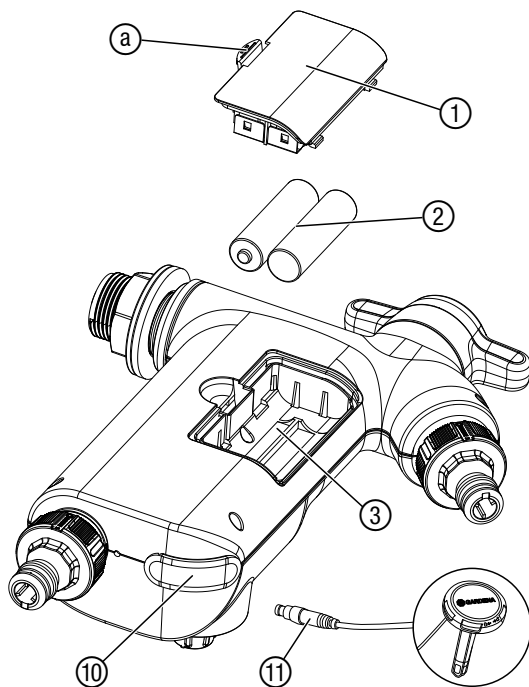
### 3.2 Installing DuoTap on a rain water tank



1. Ensure that seal ⑫ is pushed fully onto the thread.
2. Slide the inlet ⑥ of the DuoTap from the outside through the opening ④ in the rain water tank.
3. Slide the seal ⑤ from the inside onto the DuoTap inlet ⑥.
4. Screw the nut ⑦ from the inside onto the inlet ⑥.
5. Screw the two tap connectors ⑧ onto the threads.
6. Connect the water pump to the DuoTap inlet ⑥.

*The DuoTap is ready for operation.*

### 3.3 Connecting the soil moisture sensor

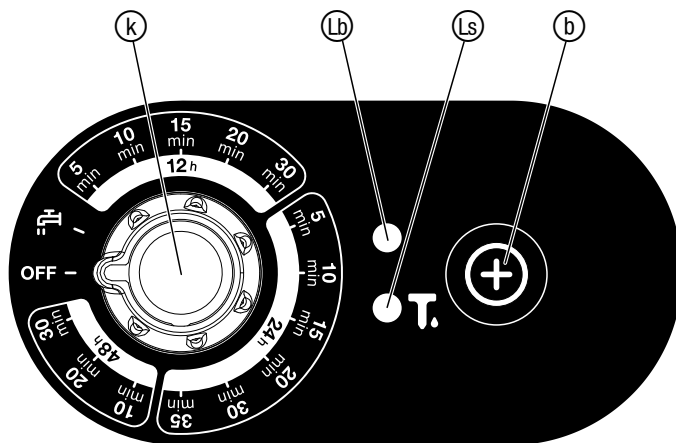


1. Open the rubber cap ⑩.
2. Insert the soil moisture sensor cable ⑪ into the connection socket of the DuoTap.

*The LED ⑬ lights up green for 2 seconds.*

## 4. Operation

### 4.1 Automatic irrigation



→ Select the desired program using the rotary knob (k).

*The LED (Lb) lights up and initial irrigation starts.*

The start time is now fixed and is retained even if another program is selected.

#### 4.1.1 Changing the start time

→ Press the “+” button (b) within 3 seconds, several times if necessary.

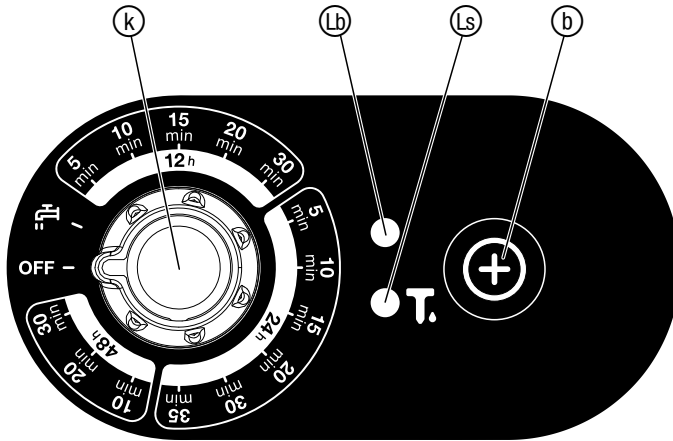
*The LED (Lb) lights up green and the start time is changed accordingly.*

#### 4.1.2 Resetting the start time

→ Turn the rotary knob (k) to “OFF”.

*The start time is reset and will be fixed again when a new program is selected.*

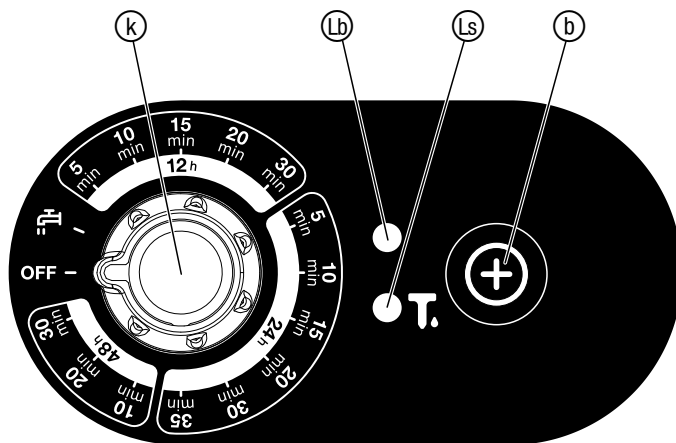
## 4.2 Manual irrigation



→ Turn the rotary knob (k) to the “tap”.

*The LED (Lb) flashes two times, manual irrigation starts and lasts 10 minutes.*

## 4.3 Activating/deactivating the childproof lock



### 4.3.1 Activating the childproof lock

→ Press the button (b) for more than 4 seconds.

*The LED (Lb) lights up orange for 2 seconds and the childproof lock is activated.*

### 4.3.2 Deactivating the childproof lock

→ Press the button (b) again for more than 4 seconds.

*The LED (Lb) lights up green for 2 seconds and the childproof lock is deactivated.*

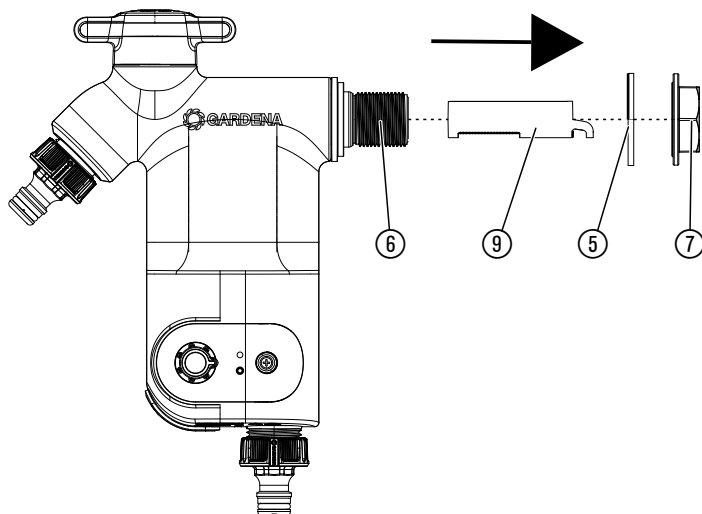
## 5. Storage

---

1. Empty the rain water tank.
2. Unscrew the DuoTap from the rain water tank.
3. Remove the batteries.
4. Store the product in a dry, frost-free location.
5. Store the product out of the reach of children.

## 6. Maintenance

### 6.1 Cleaning the dirt filter



To clean the dirt filter ⑨, the rain barrel should be emptied down to the hole.

1. Disconnect the hose from the DuoTap.
2. Unscrew the tap piece.
3. Remove the dirt filter ⑨ and clean it.
4. Push the dirt filter ⑨ back in as far as it will go.

We recommend cleaning the dirt filter ⑨ when starting up and during winter storage.

### 6.2 Cleaning the DuoTap

→ Clean the DuoTap with a soft, damp cloth.

## 7. Troubleshooting

| Problem                         | Possible cause                    | Remedy                                                                             |
|---------------------------------|-----------------------------------|------------------------------------------------------------------------------------|
| <b>Watering is not possible</b> | Flat battery:<br>LED flashes red. | → Insert two new 1.5 V alkaline manganese (alkaline) batteries, type AA (IEC LR6). |
|                                 | Filter dirty, flow rate too low.  | → Clean the filter.                                                                |
|                                 | Child lock is activated.          | → Deactivate the child lock.                                                       |
| <b>DuoTap does not close</b>    | Valve dirty.                      | → Rinse against the direction of flow.                                             |

### NOTE:

For any other malfunctions please contact the GARDENA service department. Repairs must only be done by GARDENA service departments or specialist dealers approved by GARDENA.

## 8. Technical data

| DuoTap                       | Unit | Value (Art. No. 16510)                                          |
|------------------------------|------|-----------------------------------------------------------------|
| Min./max. operating pressure | bar  | 2 – 8                                                           |
| Operating temperature range  | °C   | 5 – 50                                                          |
| Conveyed liquid              |      | filtered rainwater                                              |
| Max. liquid temperature      | °C   | 30                                                              |
| Batteries                    |      | 2x 1.5 V alkaline<br>manganese (alkaline),<br>type AA (IEC LR6) |
| Battery operating time       | y    | 1                                                               |

## 9. Accessories/Spare parts

|                                                       |                                                           |                                                |
|-------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------|
| <b>GARDENA<br/>Aqua Reserve<br/>Rainwater Tank</b>    | For attaching the DuoTap.                                 | <b>Art. No. 16500</b><br><b>Art. No. 16502</b> |
| <b>GARDENA<br/>Automatic Pump</b>                     | For pumping from the rain water tank.                     | <b>Art. No. 1766</b>                           |
| <b>GARDENA<br/>Battery-Powered<br/>Automatic Pump</b> | For pumping from the rain water tank.                     | <b>Art. No. 14606</b>                          |
| <b>GARDENA<br/>Soil moisture sensor</b>               | For incorporating soil moisture in the irrigation system. | <b>Art. No. 1867</b>                           |
| <b>GARDENA Pump<br/>Connection Set</b>                | For connecting the pump to the DuoTap.                    | <b>Art. No. 16505</b>                          |

## 10. Service

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The current contact information for our service department can be found online:

[www.gardena.com/contact](http://www.gardena.com/contact)

### 11.1 To dispose of the product



The symbol means that the product is not domestic waste. Recycle it through your local collection system for electrical and electronic equipment.

This contributes to proper end of life waste management. Contact local authorities, domestic waste services, your GARDENA servicing dealer or retailer for information. Incorrect disposal may have potential negative effects on the environment and human health, due to the potential presence of hazardous substances.

### 11.2 To dispose of the batteries



The batteries must not be disposed of with normal household waste. They must be disposed of in line with local environmental regulations.

1. Remove the batteries from the product.
2. Keep batteries away from children.
3. Ensure that the battery contacts do not short-circuit by placing tape over them.
4. Only dispose of the batteries when they are discharged.
5. Dispose of or recycle the batteries in accordance with the applicable local environmental regulations.

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