



smart system



Art. 19035

en   **Operator's manual**  
**smart** Irrigation Control

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# GARDENA smart Irrigation Control

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1. SAFETY WARNINGS .....	4
2. ASSEMBLY .....	6
3. INSTALLATION .....	9
4. OPERATION .....	20
5. MAINTENANCE .....	23
6. STORAGE .....	23
7. TROUBLESHOOTING .....	24
8. TECHNICAL DATA .....	26
9. ACCESSORIES/SPARE PARTS .....	27
10. SERVICE .....	27
11. DISPOSAL .....	28
12. TRADEMARK ATTRIBUTION .....	29

## Translation of the original instructions.



This product may be used under supervision, or if instruction regarding the safe use of the product has been provided and the resulting dangers have been understood, by children aged 8 and above, as well as by persons with physical, sensory or mental disabilities or a lack of experience and knowledge. Children must not be allowed to play with the product. Cleaning and user maintenance must not be performed by children without supervision. The use of this product by young people under the age of 16 is not recommended.

### **Intended use:**

The **GARDENA smart Irrigation Control** is intended for private use in domestic and hobby gardens, to control sprinklers and irrigation systems. It can be used for automatic watering during holidays. It is not intended for use in an indoor irrigation system.

The **GARDENA smart Irrigation Control** is part of a garden irrigation system and can only be programmed together with the **GARDENA smart Gateway**.

The **GARDENA smart Irrigation Control** is configured via the **GARDENA smart App** and controls the watering. Sprinklers, a sprinkler system or a drip head watering system can be used for watering.

The **GARDENA smart Irrigation Control** carries out watering fully automatically according to the set program and can therefore also be used during holidays.



### **DANGER!**

**Risk of injury!**

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

## 1. SAFETY WARNINGS



### Important!

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



### DANGER!

Risk of suffocation!

Small parts can be easily swallowed. There is also a risk that the polybag can suffocate toddlers.

→ Keep toddlers away when you assemble the product.

### 1.1 Explanation of the symbols:



Read operator's manual.

### 1.2 Safety warnings:



### DANGER!

Cardiac arrest!

This product makes an electromagnetic field while it operates. This field can affect the functioning of active or passive medical implants and cause serious or fatal injuries (e.g. pacemakers).

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

→ After using the product, disconnect the mains plug from the mains socket.



### DANGER!

Electric shock!

Risk of injury due to electric shock.

- The product must be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30 mA.

The product must only be operated with the 36 V (DC) power supply unit provided. Do not use an adapter.

Protect the 36 V (DC) power supply unit from moisture and direct sunlight when connected.

Install the Irrigation Control in a weatherproof location.

Check the power cord for damage before use.

The product must be used only for controlling commercially available 24 V (AC) valves. The electric power consumption per channel must

not exceed 500 mA (a GARDENA Irrigation Valve Art. 1278 requires 150 mA).

## 2. ASSEMBLY

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### ***2.1 Location of installation of the Irrigation Control:***

The Irrigation Control is splash-proof. We recommend installing the Irrigation Control in a location protected from the weather.

### ***2.2 Cable cross-section of the connection cable:***

The maximum permissible distance between the product and the valve depends on the cross-section of the connection cable. For a distance of 30 m, the cross-section is 0.5 mm<sup>2</sup> and 0.75 mm<sup>2</sup> for a distance of 45 m. No more than 2 valves (except for the master valve) must be in operation at the same time.

The **GARDENA Connection Cable Art. 1280** has a cross-section of 0.5 mm<sup>2</sup> and is 15 m long.

This cable allows to connect up to 6 valves. For a waterproof connection of the cable, use the **GARDENA Cable Clip Art. 1282**.

## 2.3 To assemble the Irrigation Control on the wall:

Both screws and wall plugs are included in the scope of delivery.

The distance between the holes is 120 mm.

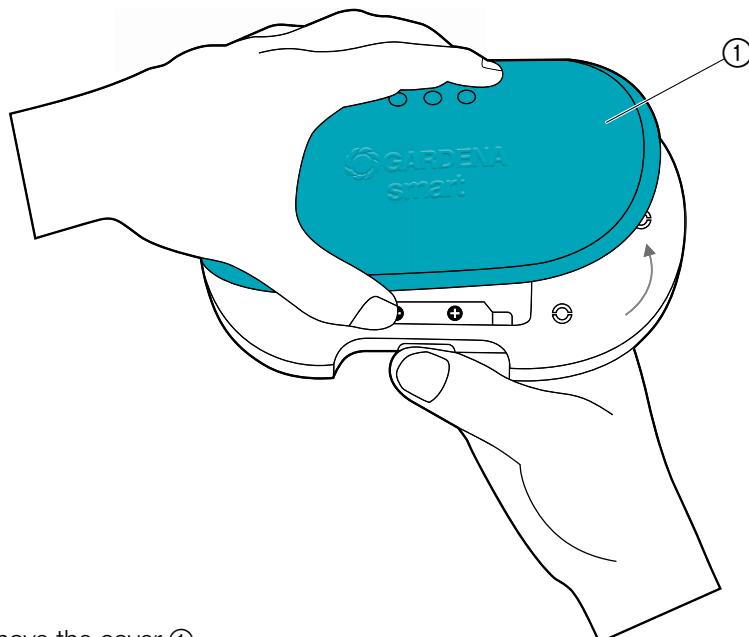


### WARNING!

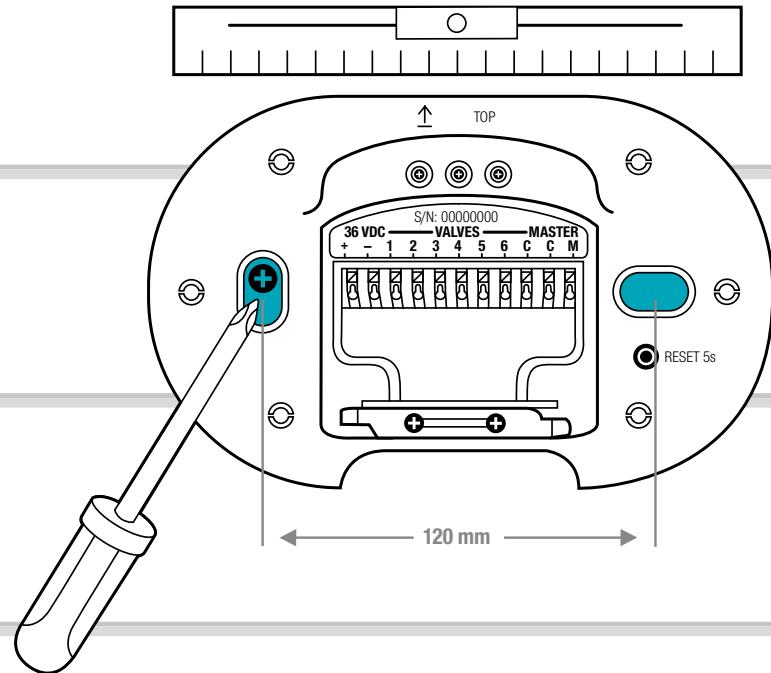
#### Risk of falling!

If you install the Irrigation Control at a height of more than 2.0 m, you risk falling to the ground during installation.

- Install the Irrigation Control at a height of 2.0 m maximum.
- Do not climb on a ladder or similar aid to install the Irrigation Control.
- Keep both feet firmly on the ground when mounting the Irrigation Control.



1. Remove the cover ①.



2. Mark the positions of the holes. To do this, hold the Irrigation Control horizontally against the wall and mark 2 holes at a distance of 120 mm.
3. Drill the holes and install the Irrigation Control at the wall using the 2 wall plugs and screws supplied.

**NOTE:**

**The cables must be led downwards!**

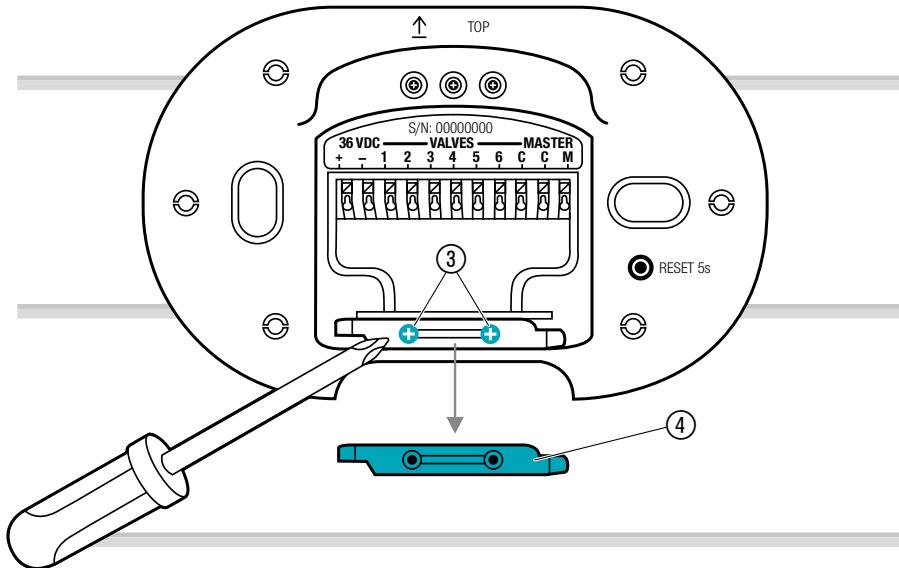
Pay attention to the cable lengths, especially during initial installation.

If you want to mount several Irrigation Controls, install them one above the other with a vertical distance of 150 mm.

The cable routing allows you to install up to 3 irrigation controls one above the other.

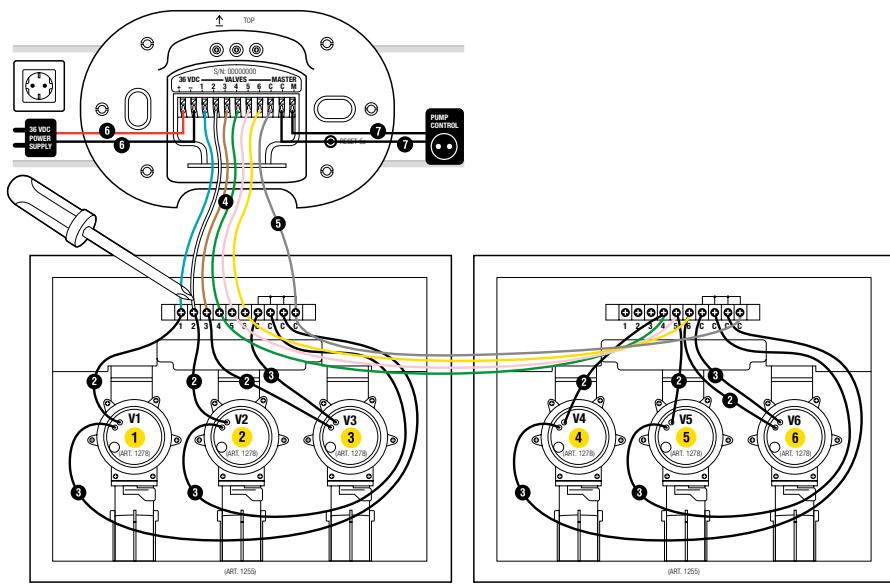
### 3. INSTALLATION

#### 3.1 To remove the cable strain relief:



- Loosen both screws ③ and remove the cable strain relief ④.

### 3.2 Connection overview:



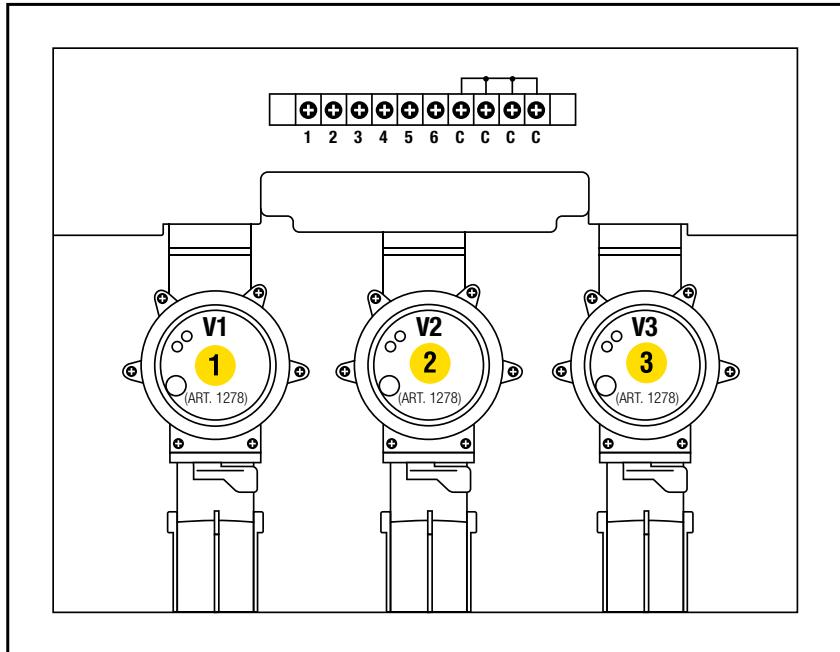
Valve Box Art. 1255

Valve Box Art. 1255

### 3.3 To connect the valves to the Valve Box:

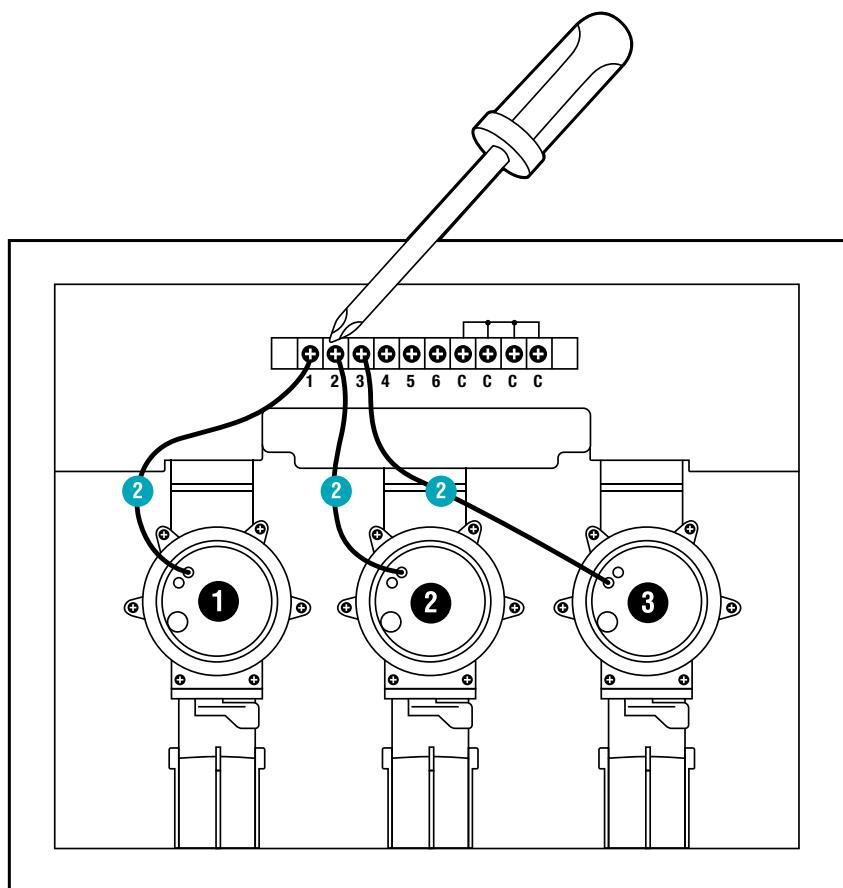
Make sure that the terminal block has been correctly installed in the valve box.

1

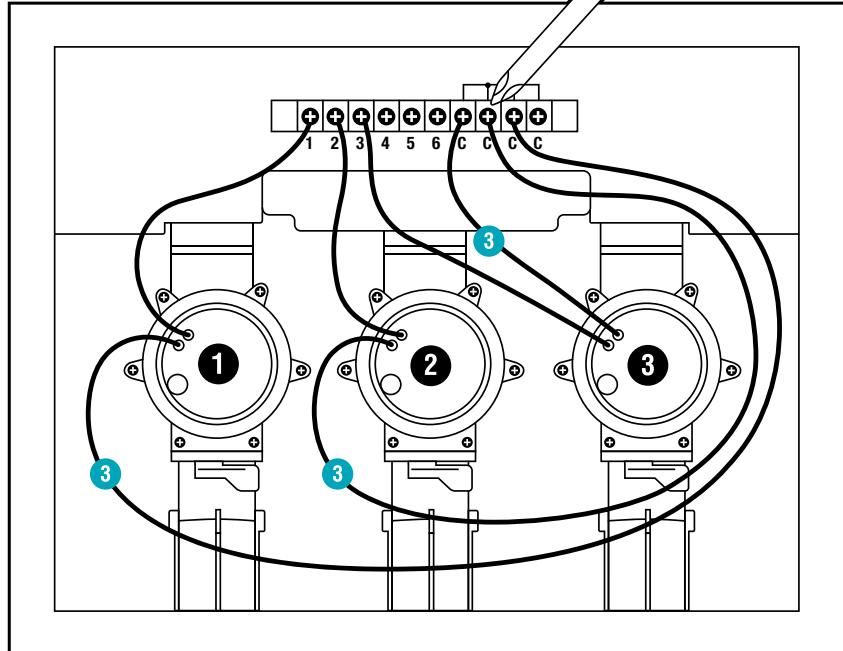


1. Label the valves (1 – 6) with the yellow stickers of the valve box.  
*This allows to clearly assign the signal cable terminals **VALVES 1 – 6** of the Irrigation Control to the valves.*

2



2. Connect a cable of the valve **V1** to the signal cable terminal **1** of the Valve Box.
3. Connect a cable of the valve **V2** to the signal cable terminal **2** of the Valve Box.
4. Connect a cable of the valve **V3** to the signal cable terminal **3** of the Valve Box.



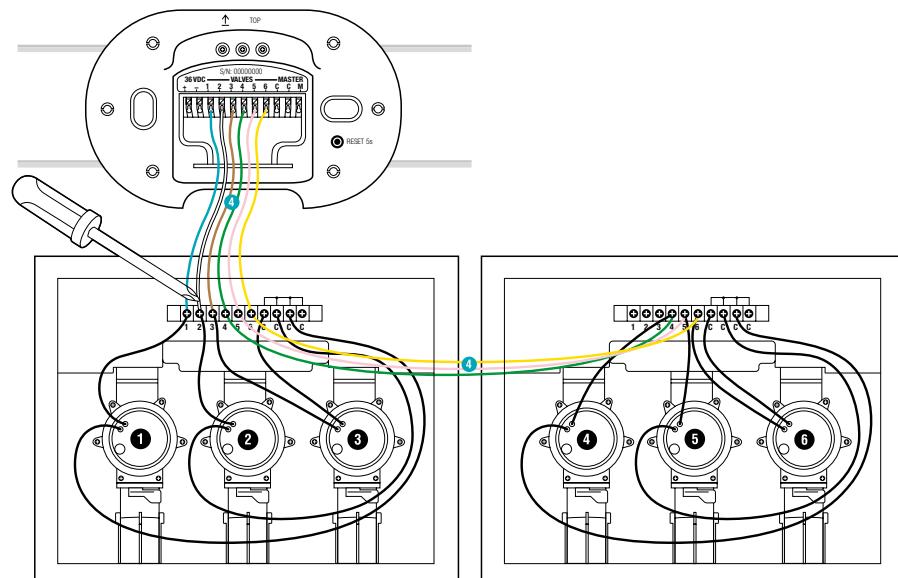
5. Connect the other cable of the valve **V1** to a signal cable terminal **C** of the Valve Box.  
*All 4 signal cable terminals **C** are connected to each other and equivalent.*
6. Connect the other cable of the valve **V2** to a signal cable terminal **C** of the Valve Box.
7. Connect the other cable of the valve **V3** to a signal cable terminal **C** of the Valve Box.

### 3.4 To connect the Valve Box to the Irrigation Control:

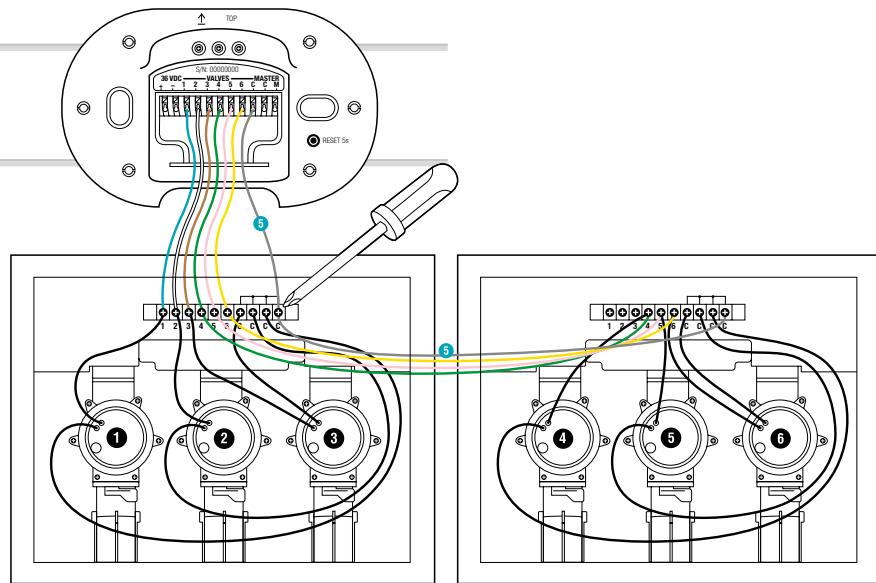
**Tip:** Press down the signal cable terminal with your index finger, screwdriver or ballpoint pen to connect the cables.

With the GARDENA Connection Cable Art. 1280 you can connect up to 6 valves with the Irrigation Control.

4



1. Connect the signal cable terminal **1** of the valve box to the signal cable terminal **VALVES 1** of the Irrigation Control.
2. Connect the signal cable terminal **2** of the valve box to the signal cable terminal **VALVES 2** of the Irrigation Control.
3. Connect the signal cable terminal **3** of the valve box to the signal cable terminal **VALVES 3** of the Irrigation Control.



4. Connect one signal cable terminal **C** of the Valve Box to the blue signal cable terminal **C** of the Irrigation Control.

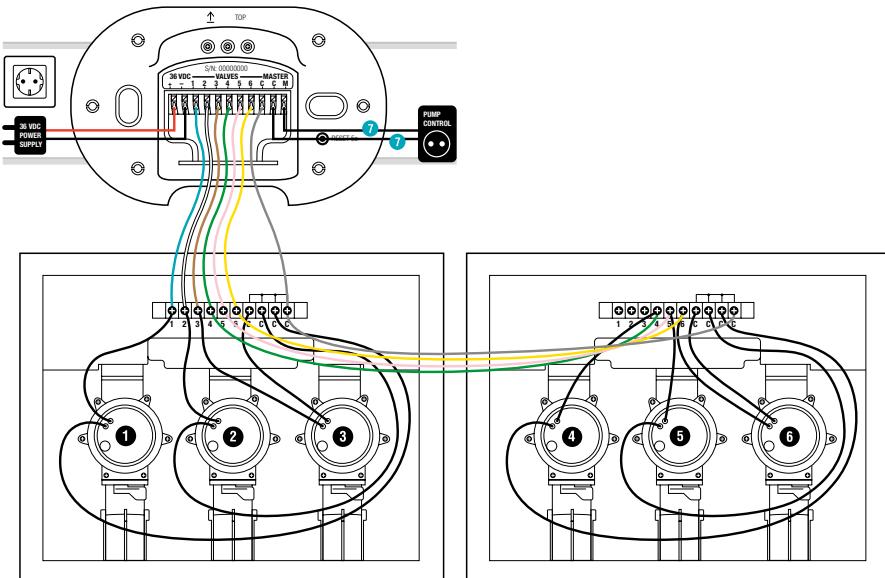
### 3.5 To connect the master valve:

#### Master Channel:

The master channel **M** is activated as soon as one of the valves is activated.

You can connect a central valve as master valve upstream of the other valves.

6



- Connect both cables to the signal cable terminals **M** and **C** of the Irrigation Control (polarity does not have to be considered).

### 3.6 To connect the power supply:



#### **CAUTION!** **Property damage!**

The Irrigation Control is damaged if the power supply unit is connected to cable terminals other than the 36 V DC cable terminals.

→ Connect the power supply unit to the 36 V DC terminals only.

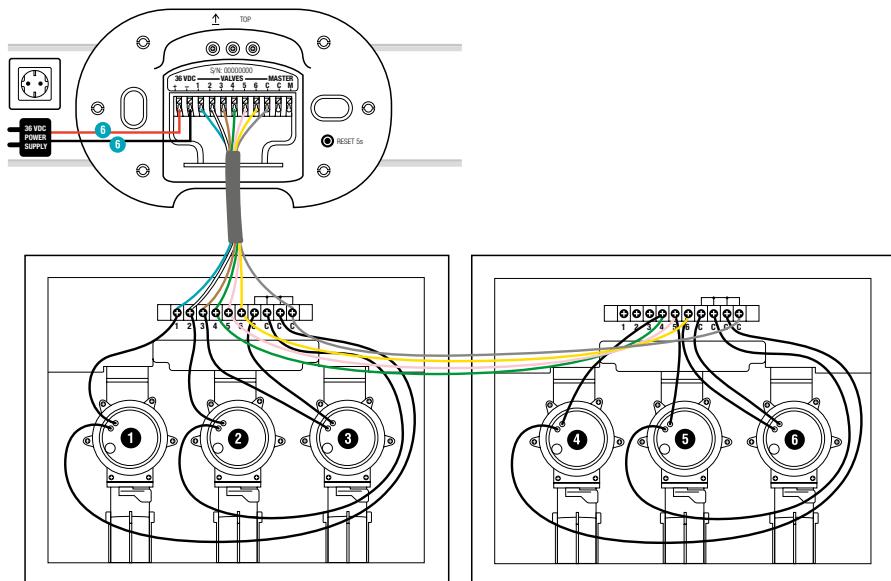


#### **CAUTION!** **Property damage!**

Damaging of the Irrigation Control system by short circuit.

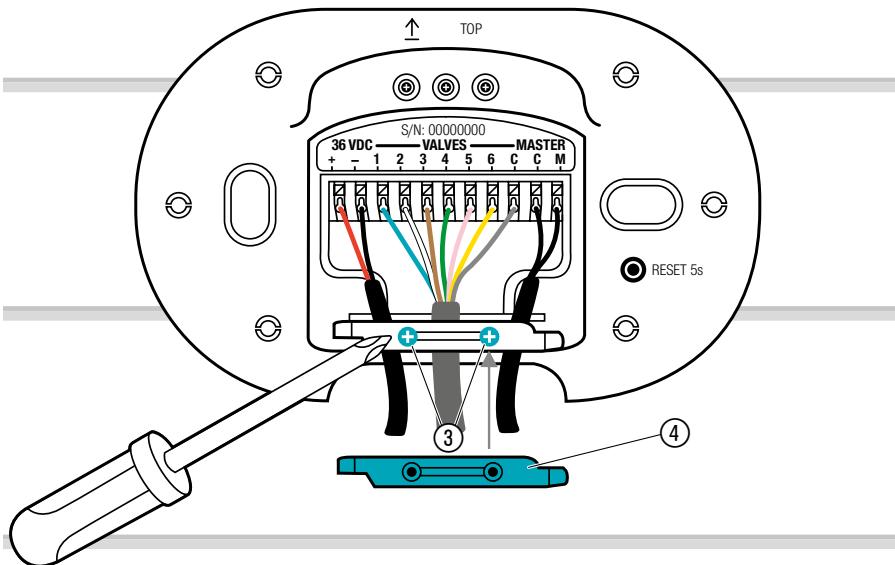
→ Check all wiring before you plug in the power supply.

7

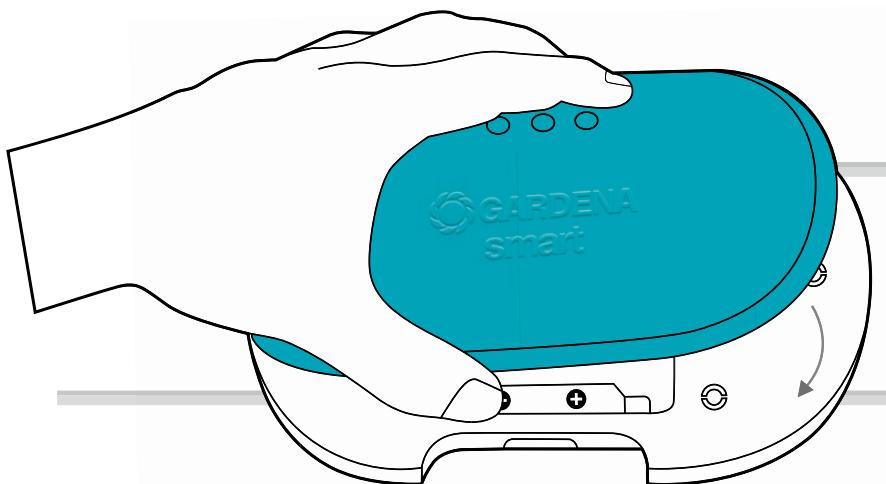


1. Connect the red cable to the red cable terminal and the black cable to the black cable terminal. (The polarity has to be considered.)
2. Plug the power supply unit into a socket.

### 3.7 To close the cover:



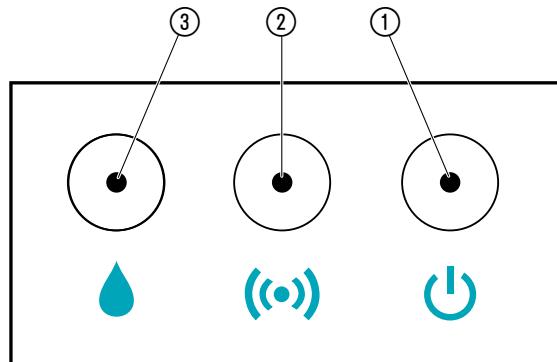
1. Attach the cable strain relief (4) and tighten the two screws (3).



2. Push the cover onto the Irrigation Control.

## 4. OPERATION

### 4.1 LED Display:



#### ① LED Power:

**Green:** Power on

#### ② LED Connection display/Signal:

**Green flashing:** While connecting

**Green:** Signal strength high

**Yellow:** Signal strength medium

**Red:** Signal strength low

**Red flashing:** Inclusion mode failed

#### ③ LED Active watering:

**Green:** Active watering

**Red flashing:** Valve error (see 7. TROUBLESHOOTING)

## 4.2 To operate the Irrigation Control with the GARDENA smart App:

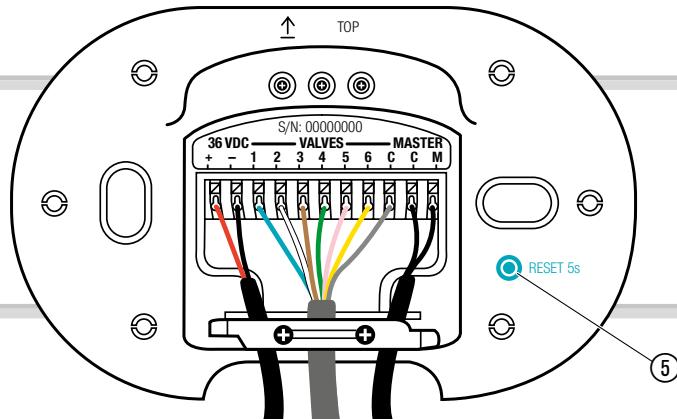
You can use the **GARDENA smart App** to control all **GARDENA smart system** products from anywhere at any time. The free **GARDENA smart App** is available on the App Store (Apple) and on Google Play.

For the integration, you need a **GARDENA smart Gateway** connected to the Internet. You can integrate all **GARDENA smart system** products via the app. To do so, follow the instructions in the app.

The following options to operate the Irrigation Control are available to you:

- According to the timings in the **GARDENA smart App**:  
Watering days, start, duration
- As required in the **GARDENA smart App**:  
Start and finish
- Operation via Amazon Alexa, Apple Home App (Siri) and Google Assistant

## 4.3 To perform a factory reset:



1. Push the Reset key ⑤ for a short time.  
*New connection.*

**- or -**

2. Push and hold down the Reset key ⑤ for at least 5 seconds.  
*Cancels the existing connection and allows a new connection to be established, e.g. different Gateway.*

## 5. MAINTENANCE

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### 5.1 To clean the Irrigation Control:

Do not use caustic/abrasive cleaning agents.

- Clean the Irrigation Control with a damp cloth (do not use solvent).

## 6. STORAGE

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### 6.1 To put into storage:

**The product must be stored away from children.**

The irrigation valves may become permanently damaged if exposed to temperatures below 5 °C. We advise you to take the following measures before the onset of frost:

1. Close the tap and detach the connecting hose between the tap and the GARDENA Connecting Point, Art. 2722.
2. If the irrigation system is connected directly to your house's water system:  
Turn off the water supply and open the drain cock in the water pipe for the house.
3. Set the selection lever on all valves to the "ON" position.
4. Drain the irrigation valve/valve box.

This can be done in the following ways:

- Drain the system using compressed air

**- or -**

- remove all valves and store in a frost-free place

**- or -**

- for the Valve Box V3, open the drain cap and drain the supply pipe.  
As long as the pipes coming from the Valve Box V3 outlets are drained via a drain valve (e.g. in the GARDENA pop-up sprinklers) which is not attached at a higher point than the irrigation valve, the irrigation valves can be left mounted in the valve box.

- The smart Irrigation Control can remain installed after it has been deactivated.

## 7. TROUBLESHOOTING

### 7.1 Troubleshooting table:

Problem	Possible Cause	Remedy
 <b>LED Power illuminates red</b>	Undervoltage.	→ Check the power connection.
	Wrong power supply.	→ Check the power supply.
	MCU Communication error.	→ Reset the Irrigation Control to factory settings.
 <b>LED Active Watering flashes red</b>	Can't open valve because of limit of 2.	→ Check the program.
	Valve is not connected.	→ Check the valve.
	Single channel overcurrent.	→ Check the current of the channel.
	Sum overcurrent.	→ Check the sum current of the valves.
	Watering schedule cancelled.	→ Restart the program.
	Master channel error.	→ Check the master channel.
	Watering duration too short.	→ Increase the watering duration.
<b>Watering program is not being undertaken (no watering)</b>	The valve has previously been manually opened.	→ Avoid any program overlap.
	Water tap closed.	→ Open the water tap.
<b>No function</b>	Faulty wiring.	→ Check the cable terminals.
	Power supply unit is not connected.	→ Connect the power supply unit.
	Power supply unit is too hot.	→ Disconnect the power supply unit and let it be cooled down. Connect the power supply unit again.
		→ Protect the power supply unit from direct sunlight.

Problem	Possible Cause	Remedy
<b>Inclusion is not possible (Inclusion)</b>	No wireless connection to the gateway.	→ Select another position for the Irrigation Control or the gateway.
	No power supply available.	→ Check the mains cable.
<b>Irrigation Control does not respond</b>	Faulty wiring.	→ Check the cable terminals.
	No wireless connection to the gateway.	→ Check the wireless connection to the gateway.

**NOTE:**

Repairs must only be done by the GARDENA service departments or specialist dealers approved by GARDENA.

- For any other malfunctions please contact the GARDENA service department.

## 8. TECHNICAL DATA

<b>smart Irrigation Control</b>	<b>Unit</b>	<b>Value (Art. 19035)</b>
<b>Input voltage</b>	V (DC)	36
<b>Input current</b>	mA	1000
<b>Output voltage</b>	V (AC)	24
<b>Max. output current</b>	mA	900
<b>Operation temperature range (outdoors)</b>	°C	+5 – +40
<b>SRD:</b>		
<b>Frequency range</b>	MHz	863 – 870
<b>Maximum power</b>	mW	25
<b>Free field radio range (approx.)</b>	m	100
<b>Power supply</b>		
<b>Mains voltage</b>	V (AC)	100 – 240
<b>Mains frequency</b>	Hz	50 – 60
<b>Rated power</b>	W	36
<b>Standby power (approx.)</b>	W	< 0.1
<b>Output voltage</b>	V (DC)	36
<b>Max. output current</b>	mA	1000

### EC/UKCA Declaration of Conformity:

Hereby, GARDENA Manufacturing GmbH declares that the radio equipment type (Art. 19035) is in compliance with directive 2014/53/EU.

The full text of the EC/UKCA declaration of conformity is available at the following internet address:

<http://www.gardena.com/int/support/safety-regulations>

## 9. ACCESSORIES/SPARE PARTS

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<b>GARDENA smart Sensor</b>	Sensor for controlling the smart system.	<b>Art. 19040</b>
<b>GARDENA Watering Valve 24 V</b>	Valve for controlling individual parts of an irrigation system.	<b>Art. 1278</b>
<b>GARDENA Valve Boxes</b>	Box for installing the watering valves underground.	<b>Art. 1254/1255</b>
<b>GARDENA Connection Cable</b>	Cable for connecting watering valves.	<b>Art. 1280</b>
<b>GARDENA Cable Clips</b>	Clip for the water-tight connection of connection cables.	<b>Art. 1282</b>

## 10. SERVICE

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Please contact the address below.

## 11. DISPOSAL

### 11.1 Disposal of the Irrigation Control:

(according to Directive 2012/19/EU/S.I. 2013 No. 3113)



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

#### **IMPORTANT!**

Dispose of the product through or via your local recycling collection centre.

## 12. TRADEMARK ATTRIBUTION

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