



Automatic watering controller for golf courses, greenbelts, farmlands, etc.

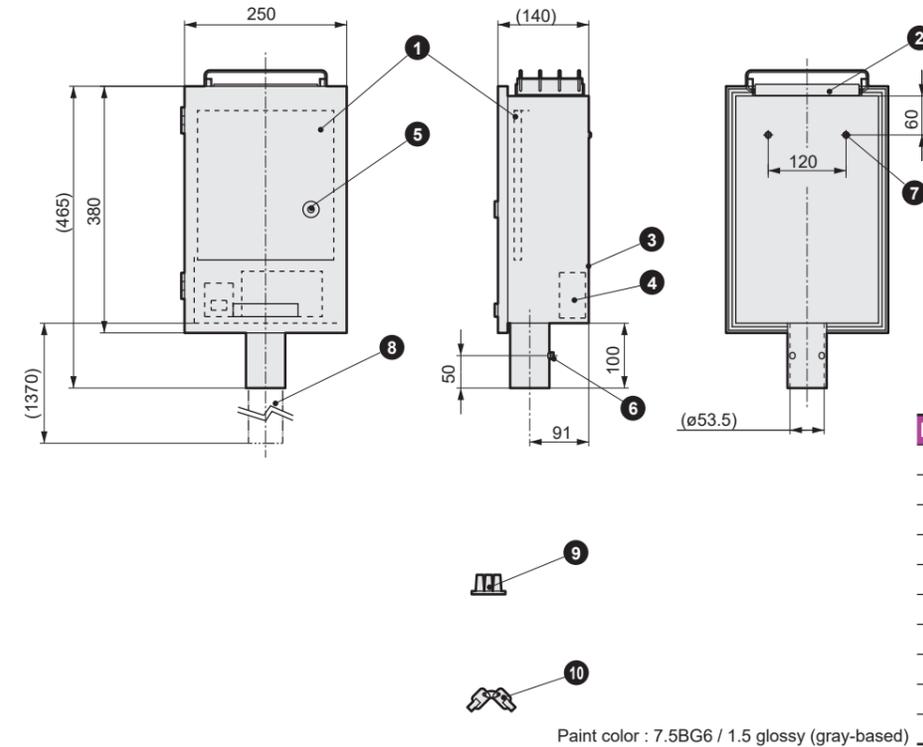
RSC-S5 Series

- Commercial power supply not required (solar cell)
- Day of the week configuration

RSC-S5 Series

Internal structure and dimensions

Internal structure and dimensions



Part No.	Part name
1	Control unit
2	Solar cell (solar battery)
3	Box (stainless steel)
4	Lead storage battery (battery)
5	Coin lock with cap
6	Hexagon head bolt
7	⊕ pan head machine screw
8	Pole (separately sold option)
9	Cable bushing (included)
10	Key (included)

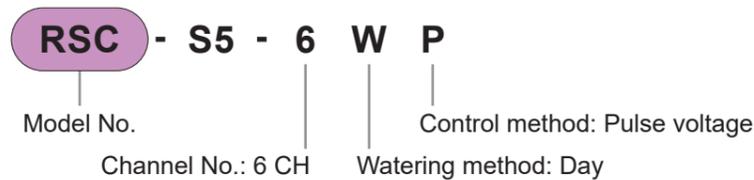
Applications

- Watering of golf courses and soccer fields
- Watering of farmlands and orchards
- Watering of parks and urban greenbelts
- Watering of greenery within buildings and on rooftops
- Watering for prevention of dust pollution
- Other watering in places where a commercial power supply is not available

Overview and Features

- Commercial power supply not required
- Can be freely installed in any direction
- Rust-free with a stainless steel box
- Low cost of facilities and construction
- Capable of configuring programs max. 9 cycles per day
- Capable of sequentially or arbitrarily configuring the watering order
- Capable of temporary and manual watering
- Measures against lightning-induced failures
- Battery protection circuit equipped
- Capable of control up to 500 m with 1.25 mm² 2-conductor wires

Model No. Notation



Specifications

Item	RSC-S5-6WP
Watering setting method	Arbitrary configuration of days of the week
Watering order	Sequentially (arbitrarily also available)
Configuration and No. of cycles to water	Max. 9 cycles / day
Watering time	Arbitrary for every channel
Upper limit of watering time	Up to 23 hours 59 minutes / day each time
Temporarily programmed watering	Available
Skip watering function	Available
Simultaneous watering	Available
Manual watering	Available
External stop	Available
Control output voltage	Polarity inverted pulse energizing (6 to 12 VDC)
Control No. (CH No.)	6 CH
Connected solenoid valve No.	1 / CH
Lightning-induced failure prevention	Anti-surge 2500 A (8 / 20 μs) varistor integrated
Control distance (2-conductor)	500 m / 1.25 mm ² , 800 m / 2 mm ²
Solar cell (solar battery)	6 VDC 1.3 W
Lead storage battery	6 VDC 5,000 mAh
Ambient temperature	-5 to 40°C
Storage ambient temperature	-25 to 60°C
Option	Pole (RSC-S-POLE), rain sensor (RS-6)
Material / paint color / weight	SUS304 t1.5, 7.5BG6 / 1.5 glossy (gray-based), 9.5 kg
Installation	Outdoors
Stopping watering with rain sensor (RS-6)	Available (rain sensor can be mounted on the body of the controller)

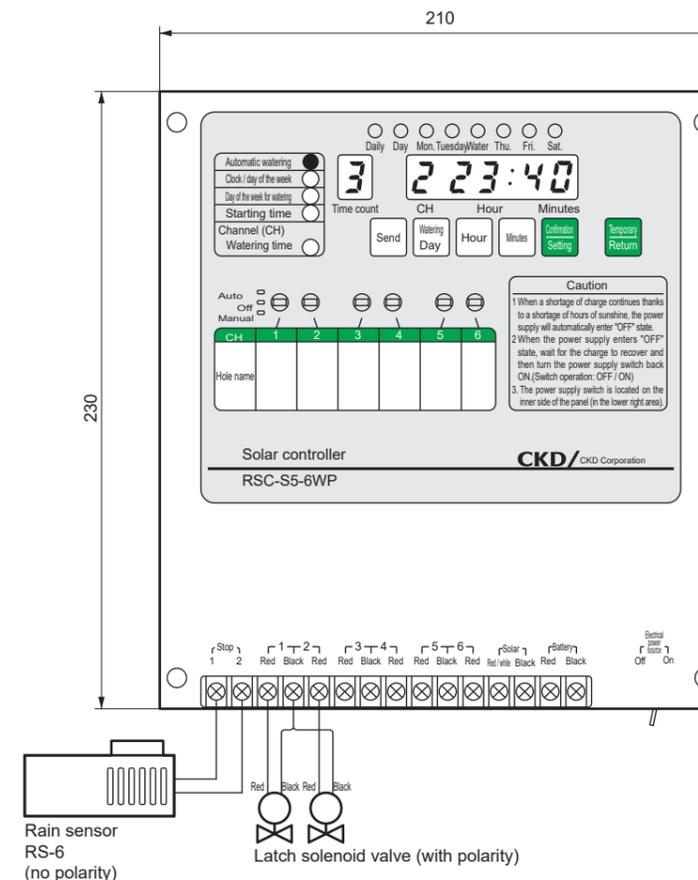
Applicable solenoid valve series

Latch (pulse voltage)

- RSV-20A-210K-P to 100F-210-P P. 20
- RSV-20A-210W-7L011-DC6V to 50A P. 34
- GSV2-20□ to 50□ P. 26
- GSV-25A-25-P 50 A P. 30

Control unit operating section / wiring

● For RSC-S5-6WP



⚠ Safety precautions

- Always read the precautions in the attached instruction manual before starting use.
- In order to maintain power generating efficiency, perform daily inspections to always keep the solar panel surface clean and make sure the unit is installed in a location that is exposed to sunlight. The power generating efficiency of the solar cells will decrease due to adhesion of bird droppings or dead leaves and will void the ability to control watering.
- When the battery voltage decreases, the battery protection circuit will operate and the display will be ineffective even when the confirmation button is pressed. After recovery of the battery voltage, turn the power supply back ON and re-configure the unit.
- Manual operation will be given the highest priority. Manual>Stop>Temporary>Auto
- Make sure the unit is installed in a location that is exposed to sunlight (for 4 hours and over / day).
- When the rain sensor (RS-6) is connected to the stop terminal, watering will be stopped when the cumulative rain volume has reached 6 mm. Recovery will be performed automatically depending on the situation of the weather.



Automatic watering controller for greenery, parks, grounds, etc.

RSC-G Series

- Free power supply 100 / 200 VAC common (commercial power supply)
- Day of the week configuration

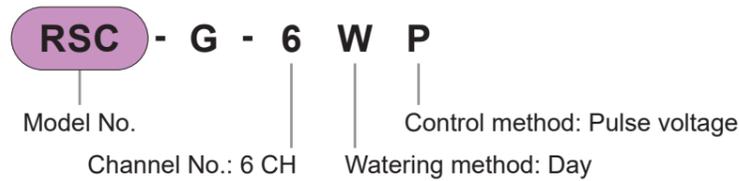
Applications

- Watering of parks and urban greenbelts
- Watering of greenery within buildings and on rooftops
- Watering of various grounds such as soccer fields
- Watering of farmlands and orchards
- Watering for prevention of dust pollution
- Others

Overview and Features

- Commercial power supply free input (85 to 264 VAC, 50 / 60 Hz)
- Capable of control up to 500 m with 1.25 mm² 2-conductor wires
- Rust-free with a stainless steel box
- Power failure memory protection for a max. of 40 days
- Capable of configuring programs max. 9 cycles per day
- Capable of sequentially or arbitrarily configuring the watering order
- Capable of temporary and manual watering
- Measures against lightning-induced failures

Model No. Notation



Specifications

Item	RSC-G-6WP
Watering setting method	Arbitrary configuration of days of the week
Watering order	Sequentially (arbitrarily also available)
Configuration and No. of cycles to water	Max. 9 cycles / day
Watering time	Arbitrary for every channel
Upper limit of watering time	Up to 23 hours 59 minutes / day each time
Temporarily programmed watering	Available
Skip watering function	Available
Simultaneous watering	Available
Manual watering	Available
External stop	Available
Control output voltage	Polarity inverted pulse energizing (6 to 12 VDC)
Power consumption	20 W / 30 W or less (100 V / 200 V)
Control No. (CH No.)	6CH
Connected solenoid valve No.	1 / CH
Lightning-induced failure prevention	Anti-surge 2500 A (8 / 20 μs) varistor integrated
Control distance (2-conductor)	500 m / 1.25 mm ² , 800 m / 2 mm ²
Rated voltage	85 to 264 VAC, 50 / 60 Hz
Power failure protection	40 days or more (only after the unit has been energized for 48 hours or more)
Ambient temperature	-5 to 40°C
Storage ambient temperature	-25 to 60°C
Option	Rain sensor (RS-6)
Box material / paint color / weight	SUS304 t1.5, 7.5BG6 / 1.5 glossy (gray-based), 9.5 kg
Installation	Indoors, outdoors
Stopping watering with rain sensor (RS-6)*1	Available

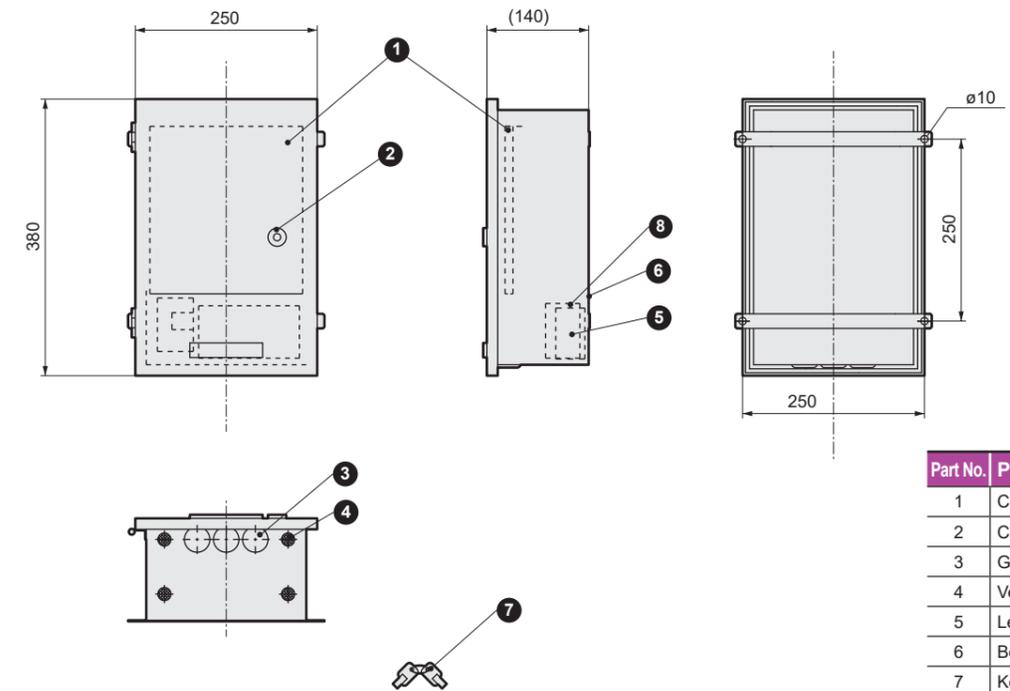
Applicable solenoid valve series

Latch (pulse voltage)

- RSV-20A-210K-P to 100F-210-P P. 20
- RSV-20A-210W-7L011-DC6V to 50A P. 34
- GSV2-20□ to 50□ P. 26
- GSV-25A-25-P 50 A P. 30

*1: Since the rain sensor cannot be mounted on the body of the controller, mount it separately within 5 m and fix it.

Internal structure and dimensions

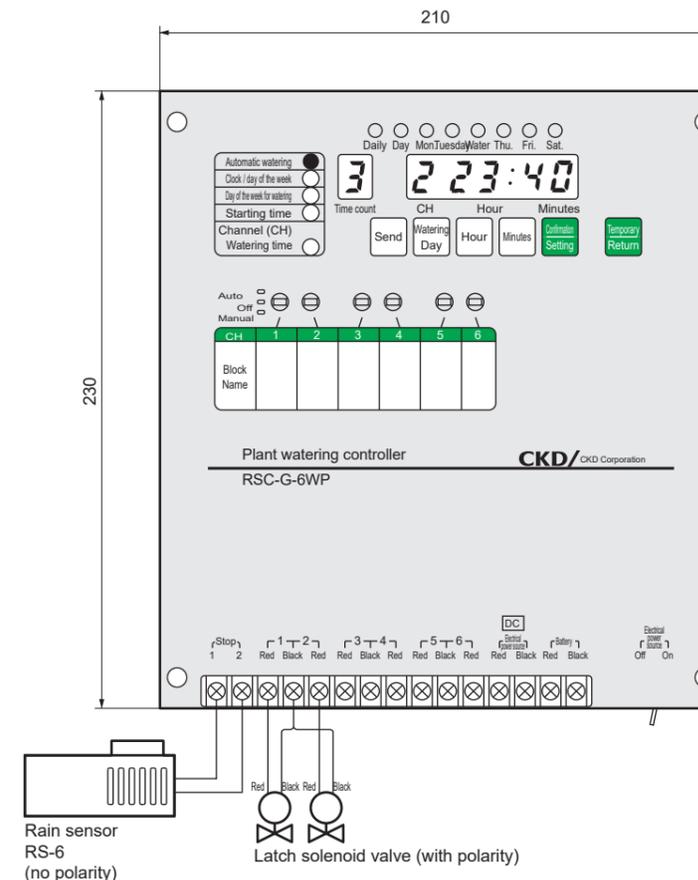


Part No.	Part name
1	Control unit
2	Coin lock with cap
3	Grommet with membrane
4	Ventilation hole
5	Lead storage battery
6	Box (stainless steel)
7	Key (included)
8	Switching power supply

Paint color: 7.5BG6 / 1.5 glossy (gray-based)

Control unit operating section / wiring

- For RSC-G-6WP



⚠ Safety precautions

- **Always read the precautions in the instruction manual before starting use.**
- When fixing the box onto a pole, be sure to use the mounting brackets (PM-317, PM-323, PM-330, PM-340) manufactured by Nitto Kogyo.
- When the storage battery voltage decreases thanks to power failure (40 days and over), etc., the battery protection circuit will automatically operate and the power supply will enter a state of being "OFF". In this case, wait for the charge to recover with a commercial power supply, turn the power supply switch back ON, and configure the program.
- Manual operation will be given the highest priority. Manual>Stop>Temporary>Auto
- When the rain sensor (RS-6) is connected to the stop terminal, watering will be stopped when the cumulative rain volume has reached 6 mm. Recovery will be performed automatically depending on the situation of the weather.



Automatic watering controller for greenery, parks, and farmlands, etc.

RSC-1WP Series

- Battery operated
- Outdoor type to match greenery
- Day of the week configuration

Applications

- Watering of parks and urban greenbelts
- Watering of greenery within buildings and on rooftops
- Watering of indoor plantings
- Watering of gardens
- Watering for amusement
- Watering of protected horticulture and outdoor cultured vegetables
- Watering in places where a commercial power supply is not available, etc.

Overview and Features

- It is possible to perform automatic watering of greenery and within greenhouses where a commercial power supply is not available
- The unit will operate for approximately 1 year with 1 alkaline battery (9 V)
- It is possible to configure a watering time for up to 12 cycles per day
- It is possible to configure the watering time from 1 minute to 9 hours and 59 minutes
- A wall mounted structure which can be mounted outside as is. Can be locked (Key not included). Optional pole holders are available
- Used to control 1 solenoid valve manufactured by CKD (port size of 20A to 80F)
- Relay output prevents lightning-induced failure

Model No. Notation

- Controller body

RSC - **1** **W** **P**

Model No. | Control method: Pulse voltage

Channel No.: 1 CH | Watering method: Day

- Pole holder (optional)

RSC-1WP-PH

Specifications

Item	RSC-1WP
Watering setting method	Arbitrary configuration of days of the week
Configuration and No. of cycles to water	12 cycles (First and second cycles can be configured for each of 6 periods)
Watering time	1 minute to 9 hours and 59 minutes per time *1
Watering method	Automatic, manual (semi-automatic)
External stop	Available
Control output voltage	Polarity inverted pulse energizing (6 to 9 VDC)
Control No. (CH No.)	1CH
Connected solenoid valve No.	1 / CH
Control distance (2-conductor)	Within 60 m (0.75 mm ² cable used) Within 100 m (1.25 mm ² cable used)
Operating ambient temperature	-5 to 40°C
Storage ambient temperature	-20 to 55°C
Power supply voltage	One 9 V alkaline battery (6LR61)
Lightning-induced failure prevention	Anti-surge 2500 A (8 / 20 μs) varistor integrated
Installation	Indoors / outdoors
Stopping watering with rain sensor (RS-6)	Mountable on a pole holder sold separately

*1: The clock error is a monthly difference of a max. of approximately ±1 minute. (Differs depending on the usage environment)

Applicable solenoid valve series

Latch (pulse voltage)

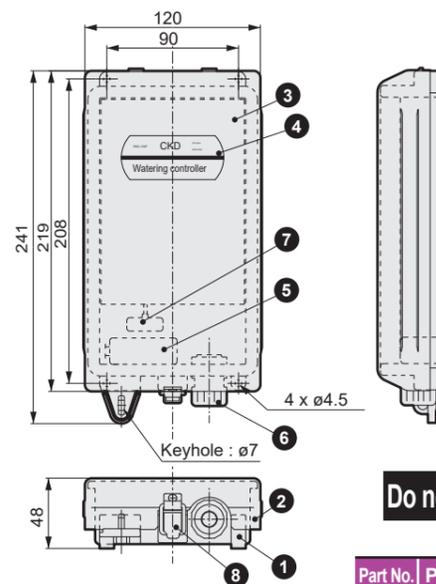
- RSV-20A-210K-P to 80F-210K-P P. 20
- RSV-20A-210W-7L011-DC6V to 50A P. 34
- GSV2-20□-P to 50□ P. 26
- GSV-25A-25-P 50 A P. 30

RSC-1WP Series

Internal structure and dimensions

Internal structure and dimensions

- RSC-1WP

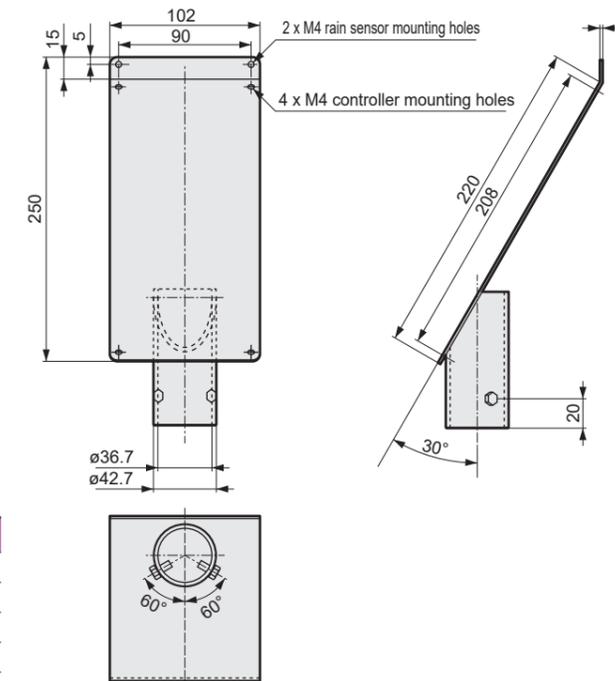


Do not disassemble

Part No.	Part name
1	Case (AAS resin)
2	Cover (stainless steel)
3	Operating section
4	Product name plate
5	Alkaline battery
6	SC lock
7	Battery hook
8	Hook snap lock

Cover finish: Powder paint
Suede stone
(light gray)

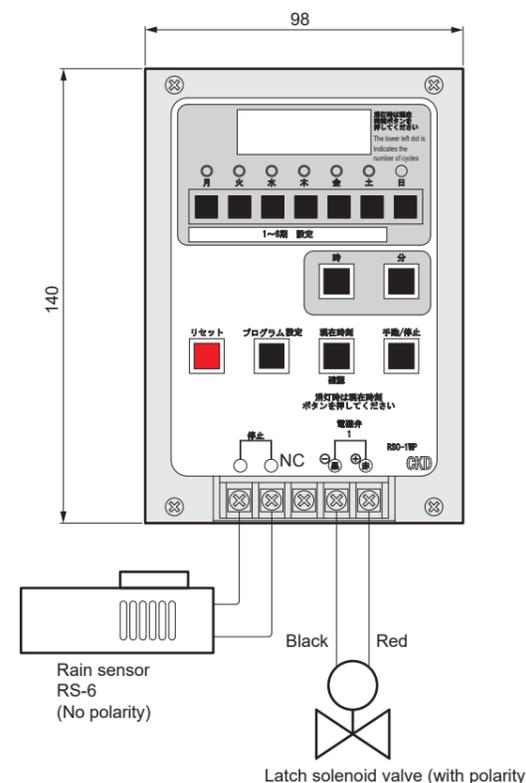
- RSC-1WP-PH



All stainless steel bolts for mounting the controller are included.

Control unit operating section / wiring

- RSC-1WP

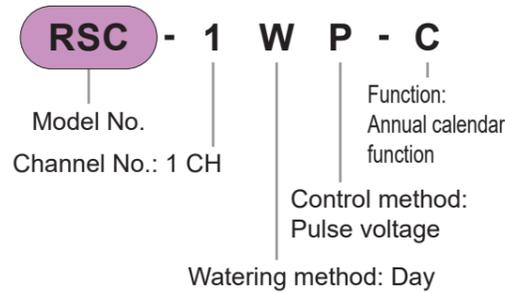


Safety precautions

- Always read the precautions in the instruction manual before starting use.
- As the batteries included with the product are for tests upon shipping, it is recommended that new batteries be purchased upon installation of the unit.
- Be sure to replace the batteries every year.
- Be sure to use a 2-conductor cable and seal the unit with an SC lock. (Cable outer diameter of ø8.5 to 10.5)
- In order to maintain water resistance, be sure to securely close the cover when not operating the unit.
- Be sure to use a plastic or stainless pipe (approx. ø35) for the pole.
- Manual operation will be given the highest priority. Manual>Stop>Auto
- When the rain sensor (RS-6) is connected to the stop terminal, watering will be stopped when the cumulative rain volume has reached 6 mm. Recovery will be performed automatically depending on the situation of the weather.

Annual calendar system

Model No. Notation

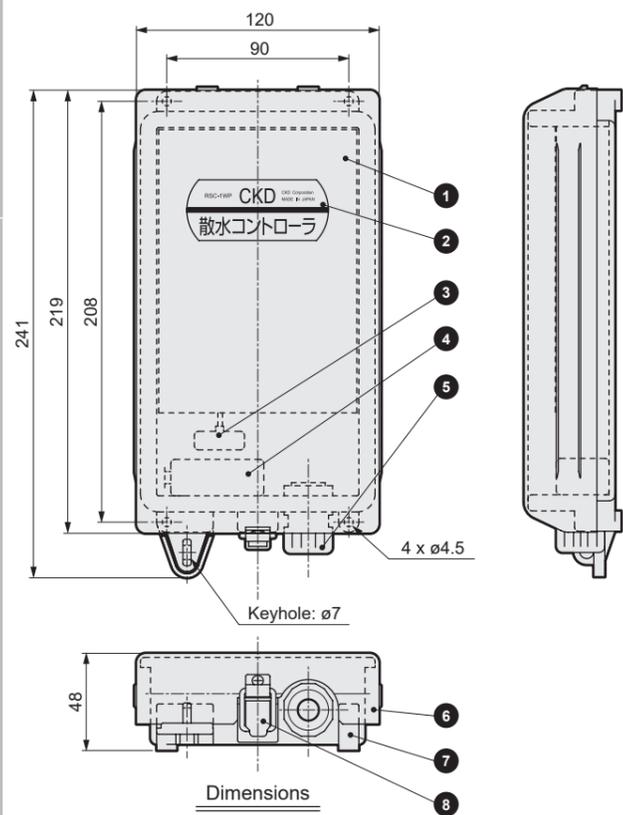


● Pole holder (optional)
RSC-1WP-PH

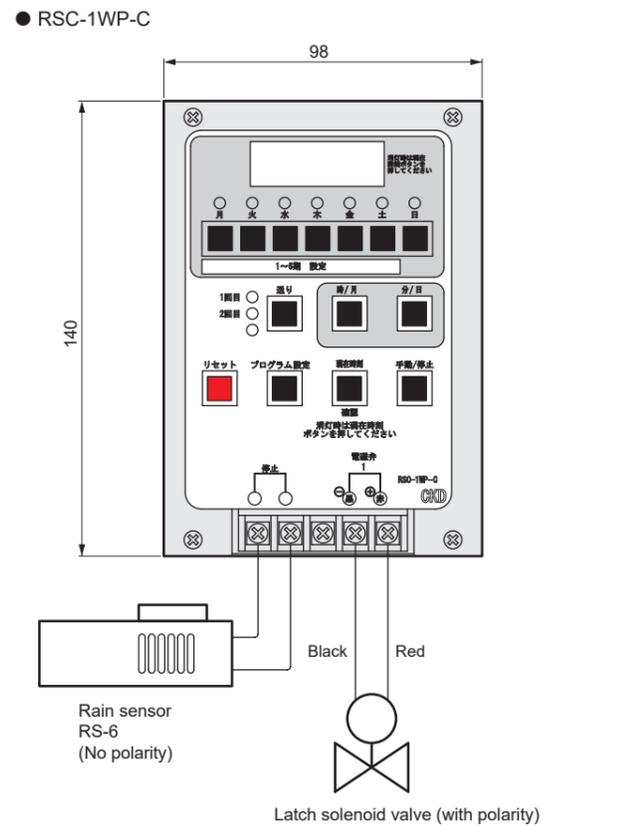
Specifications

Item	RSC-1WP-C
Watering setting method	Annual / day-of-week setting and pulse output watering method
Configuration and No. of cycles to water	12 cycles (Setting the 6th and 2nd cycles respectively)
Watering time	1 minute to 9 hours and 59 minutes per cycle
Watering method	Automatic, manual (semi-automatic)
External stop	Available
Control output voltage	Polarity inverted pulse energizing (6 to 9 VDC)
Control No. (CH No.)	1CH
Connected solenoid valve No.	1 / CH
Control distance (2-conductor)	Within 60 m (0.75 mm ² cable used) Within 100 m (1.25 mm ² cable used)
Operating ambient temperature	-5 to 40°C
Storage ambient temperature	-20 to 55°C
Power supply voltage	One 9 V alkaline battery (6LR61)
Lightning-induced failure prevention	Anti-surge 2500 A (8 / 20 μs) varistor integrated
Installation	Indoors / outdoors
Stopping watering with rain sensor (RS-6)	Mountable on a pole holder sold separately

Dimensions



Control unit operating section / wiring



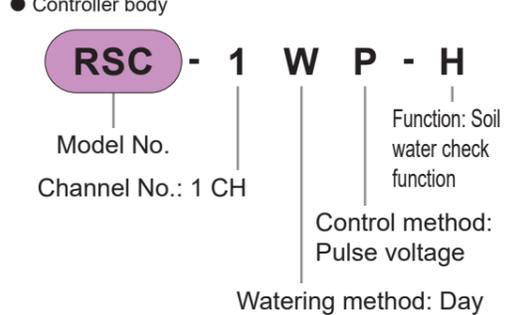
Part No.	Part name	Material
1	Operating section	-
2	Product name plate	-
3	Battery hook	-
4	Alkaline battery	-
5	SC lock	-
6	Cover	Stainless steel
7	Case	AAS resin
8	Hook snap lock	-

⚠ Safety precautions

- Always read the precautions in the instruction manual before starting use.
- As the batteries attached with the product are for tests upon shipping, it is recommended that new batteries be purchased upon installation of the unit.
- Be sure to replace the batteries every year.
- Be sure to use a 2-conductor cable and seal the unit with an SC lock. (Cable O.D. ø8.5 to 10.5)
- In order to maintain water resistance, be sure to securely close the cover when not operating the unit.
- Be sure to use a plastic or stainless pipe (approx. ø35) for the pole. (When using an optional pole holder)
- Manual operation will be given the highest priority. Manual>Stop>Auto
- When the rain sensor (RS-6) is connected to the stop terminal, watering will be stopped when the cumulative rain volume has reached 6 mm. Recovery will be performed automatically depending on the situation of the weather.
- Be careful when operating the "Reset" button as this will clear all details.
- Check the watering status regularly to avoid affecting crop growth due to trouble.

Soil water check method

Model No. Notation



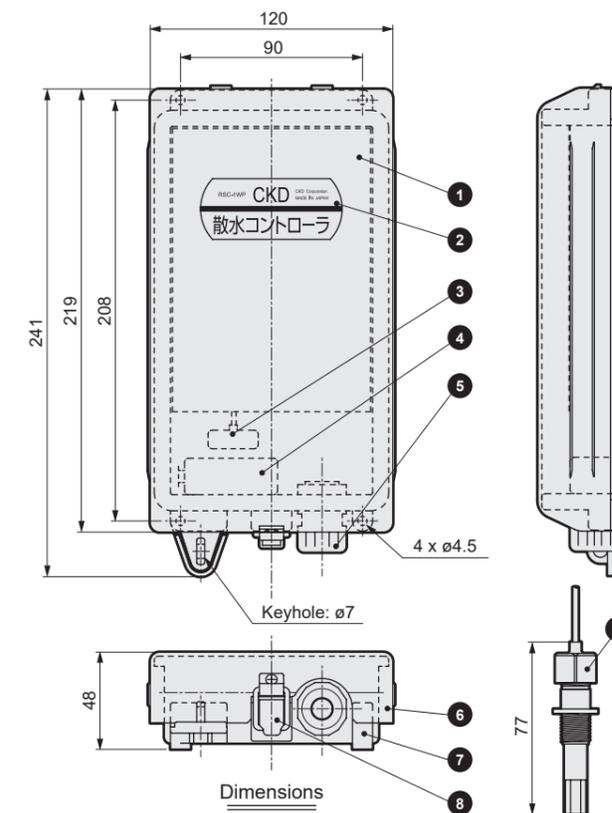
● Pole holder (optional)
RSC-1WP-PH

Specifications

Item	RSC-1WP-H
Watering setting method	Soil water check type (threshold can be set.)
Configuration and No. of cycles to water	Six terms (2 cycles / each term)
Watering time	1 minute to 9 hours and 59 minutes per cycle
Watering method	Automatic / manual (semi-automatic)
Watering / non-watering	Watering / non-watering setting based on the water setting value
Control output voltage	Polarity inverted pulse energizing (6 to 9 VDC)
Control No. (CH No.)	1 CH
Connected solenoid valve No.	1 / CH
Solenoid valve control distance	Within 60 m (0.75 mm ² cable (O.D. ø8.5 to 10) used) *1
Operating ambient temperature	-5 to 40°C
Storage temperature	-20 to 55°C
Electrical power source	One 9 V alkaline battery (6LR61)
Lightning-induced electric failure prevention	Anti-surge 2500 A (8 / 20 μs) varistor integrated
Installation	Indoors / outdoors (except atmospheres affecting component materials)

*1: Extension of the checker should be 10 m or less at 0.3 mm². (includes attachment cable 2 m)

Dimensions

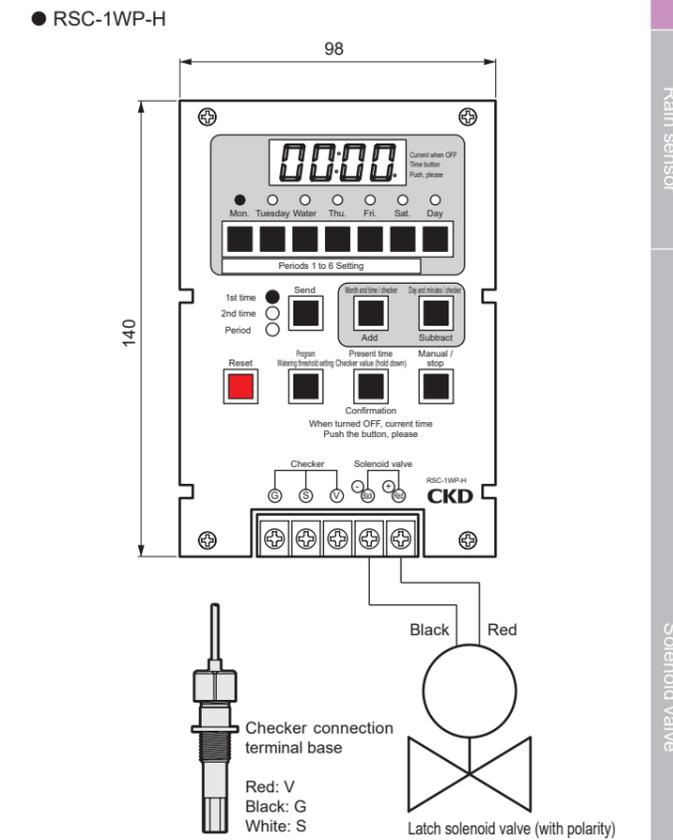


Part No.	Part name	Material
1	Operating section	-
2	Product name plate	-
3	Battery hook	-
4	Alkaline battery	-
5	SC lock	-
6	Cover	Stainless steel
7	Case	AAS resin
8	Hook snap lock	-
9	Water checker	-

⚠ Safety precautions

- Always read the precautions in the instruction manual before starting use.
- As the batteries attached with the product are for tests upon shipping, it is recommended that new batteries be purchased upon installation of the unit.
- Be sure to replace the batteries every year.
- Be sure to seal the cable port with an SC lock. (Cable O.D. ø8.5 to 10.5)
- In order to maintain water resistance, be sure to securely close the cover when not operating the unit.
- Be sure to use a plastic or stainless pipe (approx. ø35) for the pole. (When using an optional pole holder)
- Be careful when operating the "Reset" button as this will clear all details.
- Check the watering status regularly to avoid affecting crop growth due to trouble.
- Use the water checker buried in soil.
- Water checker values are values unique to CKD. As an example, the value will be around 970 when dry, or less than 400 when water is sufficiently replenished. However, values may change greatly depending on the soil and burying method, so be sure to individually check them and then set the threshold. Even when buried again, perform checks and settings again.

Control unit operating section / wiring





Automatic watering controller for golf courses, greenbelts, parks, farmlands, etc.

RSC-2WP Series

- Battery operated
- Completely independent control of 2CH watering
- Day of the week configuration

Applications

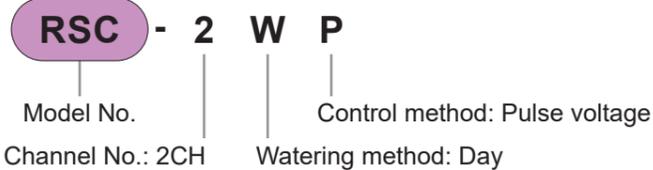
- Watering of golf courses
- Watering of parks and urban greenbelts
- Watering of greenery within buildings and on rooftops
- Watering of indoor plantings
- Watering of gardens
- Watering for amusement
- Watering of protected horticulture and outdoor cultured vegetables
- Watering in places where a commercial power supply is not available, etc.

Overview and Features

- It is possible to perform automatic watering of greenery and within greenhouses where a commercial power supply is not available
- Approximately 1 year operation with 1 alkaline battery (9V).
- It is possible to configure a watering time for up to 6 cycles a day
- Capable of configuring the watering time for 1 day to be 1 minute up to 9 hours and 59 minutes
- This lockable wall mounted structure allows you to mount the system outdoors as is. (Locks not included). Optional pole holders are available
- Used to control 2 solenoid valves manufactured by CKD (port size of 20A to 80F)
- Relay output prevents lightning-induced failure

Model No. Notation

- Controller body



- Pole holder (optional)
- RSC-1WP-PH**

Specifications

Item	RSC-2WP
Watering setting method	Arbitrary configuration of days of the week
Configuration and No. of cycles to water	2 independent channels 6 cycles / day
Watering time	Run time from 1 minute to 9 hours and 59 minutes *1
Watering method	Automatic, manual (semi-automatic)
External stop	Available
Control output voltage	Polarity inverted pulse energizing (6 to 9 VDC)
Control No. (CH No.)	2 CH
Connected solenoid valve No.	1 / CH
Control distance (2-conductor)	Within 60 m (0.75mm ² cable used)
	Within 100 m (1.25mm ² cable used)
Operating ambient temperature	-5 to 40°C
Storage ambient temperature	-20 to 55°C
Power supply voltage	One 9 V alkaline battery (6LR61)
Lightning-induced failure prevention	Anti-surge 2500 A (8 / 20 μs) varistor integrated
Installation	Indoors / outdoors
Stopping watering with rain sensor (RS-6)	Mountable on a pole holder sold separately

*1: The clock error is a monthly difference of a max. of approximately ±1 minute. (Differs depending on the usage environment)

Applicable solenoid valve series

Latch (pulse voltage)

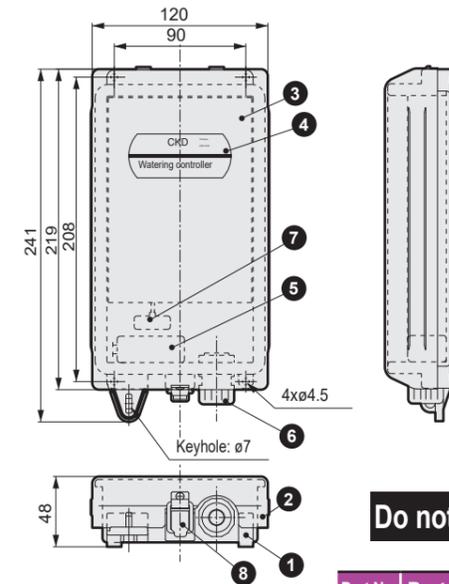
- RSV-20A-210K-P to 80F-210K-P P. 20
- RSV-20A-210W-7L011-DC6V to 50A P. 34
- GSV2-20□-P to 50□ P. 26
- GSV-25A-25-P 50 A P. 30

RSC-2WP Series

Internal structure and dimensions

Internal structure and dimensions

- RSC-2WP

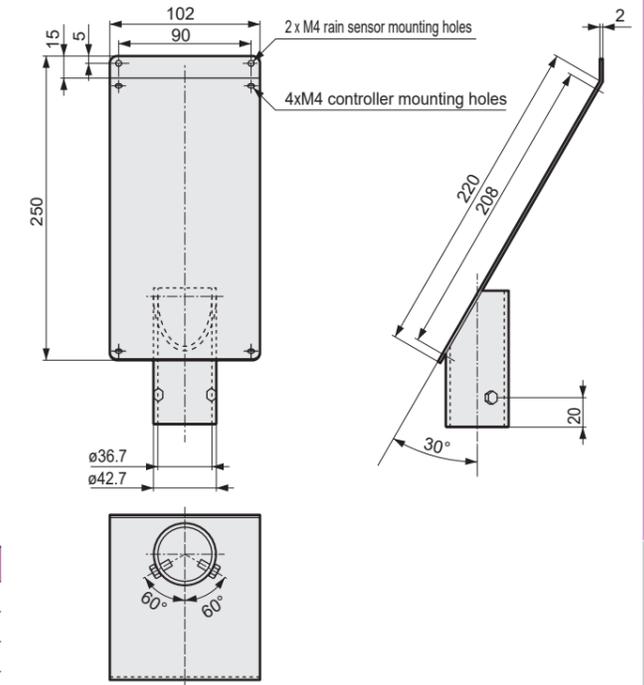


Do not disassemble

Part No.	Part name
1	Case (AAS resin)
2	Cover (stainless steel)
3	Operating section
4	Product name plate
5	Alkaline battery
6	SC lock
7	Battery hook
8	Hook snap lock

Cover finish: Powder paint
Suede stone
(light gray)

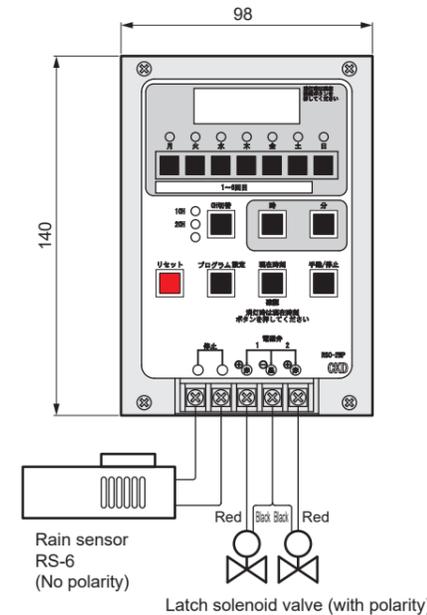
- RSC-1WP-PH
(Common to RSC-1WP, 2WP)



Controller mounting screws included
Made of stainless steel

Control unit operating section / wiring

- RSC-2WP



Safety precautions

- Always read the precautions in the instruction manual before starting use.
- As the batteries attached with the product are for tests upon shipping, it is recommended that new batteries be purchased upon installation of the unit.
- Be sure to replace the batteries every year.
- Be sure to use 3-conductor cable (cable outer diameter of ø8.5 to 10.5) for the wiring of the solenoid valves, and arrange the wiring so that the common line is shared before entry into the controller. In addition, be sure to securely seal the cable outlet with silicone, etc., when using rain sensors.
- In order to maintain water resistance, be sure to securely close the cover when not operating the unit.
- Be sure to use a plastic or stainless pipe of approximately ø35 for the pole.
- Manual operation will be given the highest priority. Manual>Stop>Auto
- When the rain sensor (RS-6) is connected to the stop terminal, watering will be stopped when the cumulative rain volume has reached 6 mm. Recovery will be performed automatically depending on the situation of the weather.
- Be careful when operating the "Reset" button as this will clear all details other than the present time.



Fluid control valves

Safety Precautions

Be sure to read this section before use.

Read safety precautions for "Fluid control valves (RJ-013AA)" as well.

Product-specific cautions: Automatic watering controller RSCSeries

When using the product

CAUTION

1. Mounting and installation

- Always read the operation procedures in each of the instruction manuals thoroughly before installation.
- With commercial power supply, be sure to use a circuit breaker such as an electrical leakage breaker to protect the controller.

2. Wiring

- With commercial power supply, be sure to establish a ground (earth) connection in order to prevent electrical shock and lightning-induced failures. (D type grounding construction)
- With commercial power supply, make sure that there are no mistakes with the power supply voltage when connecting the product.
- There are specific polarities with the output of the pulse voltage type. (Red) Reverse operation if and (Black) are connected in reverse. Do not short-circuit (contact) (Red) and (Black).
- After wiring the product, make sure that the screws of the terminal block are not loose.

For cautions for mounting, installation, adjustment, use, and maintenance, refer to the CKD Component Product Site (<https://www.ckd.co.jp/kiki/en/>)→ "Model No."→ [Instruction manual](#) for details.

MEMO

RSC-S5

RSC-G

RSC-□WP

RS-6

RSV-K

GSV2

GSV

RSV-W

Controller

Rain sensor

Solenoid valve

RSC-S5

RSC-G

RSC-□WP

RS-6

RSV-K

GSV2

GSV

RSV-W

Controller

Rain sensor

Solenoid valve