





User Manual



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Overview

Introduction

The KRC9 Professional Irrigation Controller covers a wide range of applications from residential and commercial turf, to light agriculture and professional nursery.



This instruction manual contains useful information on the proper use and care of this product. Please read through all instructions before attempting to program and use your KRC9



Please keep this user quide handy for future use



KEEP NEW OR USED BUTTON/COIN BATTERIES OUT OF **REACH OF CHILDREN**



Swallowing or placing inside any part of the body can lead to chemical burns, perforation of soft tissue, and death, Severe burns can occur within 2 hours of ingestion. Seek medical attention immediately if ingested or placed inside the body.

Contact the Australian Poisons Information Centre for 24/7 fast, expert advice: 2 13 11 26

Refer to your local government guidelines on how to correctly dispose of button/coin batteries.





Main Components

- 1. LCD display
- 2. <
- 3.
- 4. >
- 5. 🗖
- 6. **P**

- 7. SENSOR switch
- 8. MAIN DIAL
- 9. Terminal cover

Overview

Features

Max no. ZONES	9
Max no. PROGRAMS	5
Max no. STARTS per PROGRAM	8
Looping	PROGRAM 5; max. 99 loops
	12:59 hrs
Max. RUN TIME/DELAY	(can be multiplied up to 200%)
Scheduling options (per PROGRAM)	7 Day, Interval Days (up to 15),
	Odd, Even, Odd-31
SEASONAL ADJUSTMENT	Per month, 10-200%
MANUAL control	Per ZONE with savable run time
SYSTEM TEST	Sequential for all ZONES, 2 min default
PUMP/master control	ON/OFF per zone or per program
Rain sensor connectivity	Optically isolated hard-wired input
Rain sensor control	Master ON/OFF slide switch
Rain sensor programming	Per ZONE
Rain delay	Max 9 days
Shut off control	Turn MAIN DIAL to ALL OFF
Contractor programming	Save, recall and load memory easily
Clock and calendar	RTC; month, year, date, week day, time
Memory backup power	9V battery
Deriver equipe	24VAC low energy transformer
rower source	with 30W capacity
Power spike protection	M-205 fuse rated at 1A
Common	4× common cables
Foult dotoction	Available on LCD display;
	no AC power and low battery
Housing	Heavy duty with lockable door and
nousing	IS54 dust and moisture protection

Programming

How Programming Works

This controller has been designed with 5 separate programs to allow different landscape areas to have their own individual watering schedules

- A PROGRAM is a method of grouping zones (valves) with similar watering requirements to water on the same days. These zones will water in sequential order and on the days selected
- Group the zones (valves) which are watering similar landscape areas together. For example, turf, flower beds, gardens-these different groups may require individual watering schedules, or **PROGRAMS**
- Set the current time and correct day of the week. If odd or even day watering is going to be used, make sure the current year, month and day of the month is correct
- If left unattended for over 1 minute, the LCD display will return to AUTO no matter the position of the MAIN DIAL. If you were in the process of programming this controller, turn dial to AUTO and then back to the position you were programming to continue

Set Automatic Program

Set the automatic **PROGRAM** for each group of zones (valves) by completing the following three steps:

- 1. Set watering START TIMES
- For each start time, all the zones (valves) selected for the **PROGRAM** will come on in sequential order
- If two start times are set, the zones (valves) will come on twice
- 2. Set WATER DAYS
- 3. Set **ZONE RUN TIME** (durations)

This controller has been designed for quick intuitive programming. Remember these simple tips for hassle free programming:

- One push of a button will increment one unit
- Holding a button down will fast scroll through units
- During the programming, only flashing units are able to be set
- Adjust flashing units using ➡ or ➡
- Press ≤ or ≥ to scroll through settings as desired
- The MAIN DIAL is the primary device for selecting an operation
- Press P to select different PROGRAMS. Each push on this button will increment one PROGRAM number

Set Current Time, Day and Date

- 1. Turn the MAIN DIAL to CLOCK-CALENDAR
- Use □ or □ to adjust the flashing *minutes* [a]
- Press ≥ and then use
 or = to adjust the flashing *hours* [a]
- AM/PM must be set correctly.



- Press ≥ and then use ⇒ or ⇒ to adjust the flashing days of the week [b]
- Press S repeatedly until the calendar date appears on the display with the year [c] flashing

The calendar only needs to be set when selecting odd/even day watering



- Use
 or
 to adjust
 the flashing year [c]
- Press ≤ and then use
 or = to adjust the flashing *month* [d]
- Press ≤ and then use
 or = to adjust the flashing date [e]
- To return to the clock, turn the dial back to **AUTO**

Set Start Times

- All zones will run in sequential order for each start time
- For this example, we will set a START TIME for PROG No. 1
- 1. Turn the dial to **START TIMES** and ensure that **PROG No. 1** is showing
- If not, press P to cycle through the PROGRAMS and select PROG No. 1



- 2. START No. 1 [f] will be flashing
- 3. Use ➡ or ➡ to change the **START No.** if required
- Press ≥ and the *hours* [g] for your selected START No. will flash

- Use or to adjust if required
- Ensure AM/PM is correct
- Press ≥ and the minutes [g] will flash
- Use or to adjust if required
- Each **PROGRAM** can have up to 8 **START TIMES**
- To set an additional START TIME, press
 and START No. 1 [f] will flash
- 9. Advance to START No. 2 by pressing
- 10. Follow steps 4-7 above to set a START TIME for **START No. 2**
- To enable or disable a
 START TIME, use □ or
 to set both the *hours* and *minutes* to zero
- To cycle through and change PROGRAMS, press P repeatedly

Set Watering Days

 This unit has individual day, EVEN/ODD date, ODD-31 date and INTERVAL DAYS selection

Individual Day Selection:

- 1. Turn dial to WATER DAYS and PROG No. 1 will show
- If not, use P to select **PROG No. 1**
- 2. MON (Monday) [h] will be flashing



 Use G or G to enable or disable watering for Monday respectively

- 4. Use ≤ or ≥ to cycle through the days of the week

ODD/EVEN Date Selection

- Some regions only allow watering on odd dates if the house number is odd, or likewise for even dates
- Turn dial to WATER DAYS and PROG No. 1 will show
- Press ≥ repeatedly to cycle past SUN until EVEN DAYS [i] or ODD DAYS is showing accordingly



Set Watering Days (continued)



B Press ≥ again for ODD- 31 [i] if necessary



- The 365-day calendar must be set correctly for this feature. (see Set Current Time. Dav and Date)
- This controller will take leap years into account

Interval Dav Selection

- 6. Turn dial to WATER DAYS and PROG No. 1 will show
- 7. Press ≥ repeatedly to cycle past SUN until **INTERVAL DAYS** is showing accordingly



INTERVAL DAYS 1 [k] will be flashing

- Use or to select from 1 to 15 day intervals
- Example: **INTERVAL DAYS 2** means the controller will run the program every 2 days

The next active day is always changed to 1. meaning tomorrow is the first active day to run

Set Zone Run Times



3 ZONE BUN TIME is the length of time each zone (valve) is scheduled to water on a particular PROGRAM

 Maximum watering time is 12 hrs 59 min for each ZONE

- A zone can be assigned to any or all of the possible 5 PROGRAMS
- 1. Turn the dial to ZONE RUN TIMES



3 ZONE No. 1 [1] will be flashing labelled as OFF. as shown above, meaning it has no RUN TIME programmed in it

- O The controller has permanent memory so if there is a power failure, even if the battery is not installed. the programmed values will be restored to the unit
- Press or to select a zone (valve)
- 3. Press ▶ and OFF will flash
- Press or to adjust the RUN TIME minutes as desired
- 5 Press ▶ and the **BUN TIME** hours will flash
- 6. Press
 or
 to adjust the **BUN TIME** hours as desired
- 7. Press **▷** and the **ZONE No.** will flash again
- 8. Press or to select another zone (valve), and repeat steps 2-7 above to set a **BUN TIMF**

Set Run Times (continued)



To turn a ZONE OFF. set both the hours and minutes to 0, and the display will flash OFF [m] as shown

⊘ This completes the setup procedure for PROG No. 1

Set Additional Programs



Set schedules for up to 5 PROGRAMS by pressing when setting up START TIMES. WATERING DAYS and ZONE BUN TIMES as previously outlined

⊘ Although the controller will run automatic programs with the MAIN DIAL in any position (with the exception of OFF), we recommend to leaving the main dial on AUTO position when not programming or running manually

Manual Operation

Run a Single Zone



- will be flashing
- The default manual run time [m] is 10 minutesto edit this, see Edit Manual Run Time
- Use C or to select the desired zone
- ① The selected zone will start running and the RUN TIME will decrease accordingly

- If there is a pump or master valve connected. PUMP A [o] will be shown in the display, indicating the pump/master is active
- 3. Press ▶ and the **BUN TIME** minutes [p] will flash
- 4. Use 🖬 or 🗖 to adjust the *minutes*
- 5. Press ▶ and the **BUN** TIME hours [p] will flash
- Use or to adjust the hours
- The unit will revert to AUTO after the time has lapsed
- If you forget to turn the dial back to AUTO, the controller will still run programs
- 7. To stop watering immediately, turn the dial to ALL OFF

Manual Operation (continued)

Edit Manual Run Time

- 1. To edit default MANUAL **BUN TIME** turn the dial to MANUAL ZONE

3 ZONE No. 1 [n] will flash

- Press > and the BUN TIME minutes [p] will flash
- Use I or to adjust the **BUN TIME** minutes
- 4 Press ▶ and the default RUN TIME hours [p] will flash

- 5. Use 🖬 or 🗖 to adjust the **BUN TIME** hours
- 6 Once the desired **BUN** TIME is set. press P to save this as the default manual **BUN TIME**
- The new default will now always appear when the dial is turned to MANUAL ZONE

Run a Program

1. To manually run a complete program or to stack multiple programs to run, turn the desired **PROGRAM**



OFF will flash on the display

- 2. To enable a **PROGRAM**. press 🖽 and the display will change to ON
- A If no **RUN TIME** has been set for the desired PROGRAM. the above step will not work
- To run the desired **PROGRAM** immediately. press >

Other Features

Stop Watering

- To stop an automatic or manual watering schedule, turn the dial to ALL OFF
- For automatic watering remember to turn the dial back to AUTO, as ALL OFF will stop any future watering cycles from occurring

Stacking Start Times

- If the same START TIME is set across multiple PROGRAMS, they will run individually in sequential order, starting from PROGRAM 1 through to 5
- If a START TIME runs over another RUN TIME, it will be delayed accordingly

Upload to Contractor Memory

- 1. Turn the MAIN DIAL to ALL OFF
- 2. Press S and S at the same time, and the display will read LOAD UP and SAVE CONTRACTOR MEMORY



3. Press P to confirm

Download Contractor Memory

- 1. Turn MAIN DIAL to ALL OFF
- 2. Press and the display will read LOAD and RECALL CONTRACTOR MEMORY



3. Press P to confirm

Rain Sensor

 When installing a rain sensor, first remove the factory fitted link between the COM and SENS terminals as shown



- Replace with the two wires from the rain sensor into these terminals, polarity NOT required
- A Rain Sensor needs to be connected to the terminal correctly for this feature (for more details, see Zone Valve Installation)
- 3. Toggle the **RAIN SENSOR** switch to **ON**
- Turn the dial to **RAIN SETTINGS** to enable your rain sensor for individual zones

- The default mode is
 ON for all zones
- If a zone is labelled ON on the display, this means your rain sensor will be able to control the valve in the instance of rain
- Should you have a zone that always needs to be watered, (such as an enclosed greenhouse, or plants that are under cover) the rain sensor can be turned OFF to continue watering during rainy conditions
- To turn a zone OFF, press ≥ to cycle through and select the desired zone, then press ■
- 6. To toggle a zone back **ON**, press **□**
- To disable the rain sensor and allow all zones to water, toggle the RAIN SENSOR switch to OFF

Rain Delay

- To adjust the timing of your rain sensor, this controller features a RAIN DELAY setting
- This allows a specific delay time to elapse after the rain sensor has dried out before the zone will water again.
- 1. Turn the dial to RAIN SETTINGS
- Press ≤ to access the RAIN DELAY screen
- The INTERVAL DAYS [q] value will now be flashing



- Use or to alter the rain delay time in increments of 24 hours at a time
- A maximum delay of 9 days can be set
- This halts any watering and stops all automatic programs until the rain delay expires

Pump Connection



- 2. Use ≤ or ≥ to scroll ZONES
- Use to deactivate pump when running the selected **ZONE**

- Use to activate pump when running the selected **ZONE**
- 5. Press P again to switch to PUMP A on PROGRAM 1 [t]



- This allows for pump activation to be assigned to **PROGRAMS** rather than **ZONES**
- 6. Use ≤ or ≥ to scroll PROGRAMS

Display Contrast

- 1. To adjust the LCD contrast, turn the dial to **PUMP SETTINGS**
- 2. Press P repeatedly until the display reads CON
- CON 3 is the default contrast setting

- 3. Use □ or □ to adjust the display contrast as desired
- 4. To save your setting, turn the dial back to **AUTO**

Seasonal Adjustment

- Automatic ZONE RUN TIMES can be adjusted by percentage as the seasons change
- Water budgeting saves valuable water as
 RUN TIMES can be adjusted quickly to reduce or increase water usage
- For this function, it is important to set the calendar correctly– see <u>Set Current Time,</u> <u>Day and Date</u>

1. Turn dial to **SEASONAL ADJUSTMENT**—the display will appear as follows:



 This means the **RUN TIMES** are set to a **BUDGET%** of 100% [u]

Seasonal Adjustment (continued)

- By default, the display will show the current **MONTH**
- For example, if ZONE No. 1 is set to 10 minutes then it will run for 10 minutes
- If the BUDGET% changes to 50%, ZONE No. 1 would now run for 5 minutes (50% of 10 minutes)
- The budget calculation is applied to all active ZONES and RUN TIMES
- 2. Use ≤ or ≥ to cycle through the months 1 to 12
- Use □ or □ to adjust the BUDGET% in 10% increments for each month
- This can be set for each month from OFF to 200%
- The permanent memory function will retain the information

- 4. To return to the clock, turn the dial to **AUTO**
- If the BUDGET% [v] for your current month is not 100%, this will be shown in the AUTO clock display



Fuse



- Use only 1 amp fuse M-205
- If the fuse has blown, or there is none installed. the display will flash FUSE FAULT [w]



System Test

1. Turn the dial to SYSTEMS TEST





• Your **KRC9** will water every zone sequentially for 2 minutes each

- Press ≥ to advance to the next zone before the 2 minute period has elapsed
- It is not possible to go backwards to a previous zone
- To restart the system test from ZONE No. 1. turn the dial to OFF. and then back to SYSTEM TEST

Looping Setup

- 1. Turn the MAIN DIAL to **ZONE RUN TIMES**
- Repeatedly press P to access PROGRAM 5 settings
- Set the RUN TIMES as desired for each ZONE (see <u>Set Run Times</u>)
- After setting the **RUN TIMES**, press ► repeatedly until the display reads LOOP OFF
- 5. Press 🖶 to enable looping
- The display will read LOOP ON
- Press > to proceed to looping settings, where
 NO LOOPS [y] (number of loops) will be flashing



- 6. Use or to adjust the number of loops
- This controller has a max of 99 loops
- Press ≥ and Hrs MIN will flash [z]
- Use C or C to toggle between Hrs MIN or MIN SECS
- 9. Press ≥ to advance to TIME BETWEEN LOOPS
- Use □ or □ to adjust the MIN or SECS between each loop
- Press ≥ and use
 or ⊃ to adjust the
 Hrs or MIN between each loop

Looping Setup (continued)

 Press ■ again and the display will read LOOP RUN [A] at this stage



Running Automatic Looping

- Turn MAIN DIAL to WATERING DAYS and set desired active days for PROGRAM 5 (see <u>Set Watering Days</u>)
- Turn MAIN DIAL to START TIMES and set the desired times for PROGRAM 5 (see Set Start Times)

- Use □ or □ to toggle between the Hrs MIN or MIN SECS [A] time settings that were previously set
- This will also change times set for PROGRAM 5 to Hrs MIN or MIN SECS
- Press ≥ to save your loop settings and return to PROGRAM 5 controls
- 3. Turn the **MAIN DIAL** to **AUTO** to complete the process

Clearing the Programs



- As this unit has a permanent memory feature, the best way to clear the **PROGRAMS** is as follows:
- 1. Turn the dial to ALL OFF
- Press ≥ twice until the display appears as follows:



Program Rescue Feature

- 3. Press P to clear all PROGRAMS
- 4. All functions for setting TIME, START TIMES. WATERING DAYS and **BUN TIMES** will be cleared and returned to the start up settings
- PROGRAMS can also be cleared by manually setting START TIMES. WATERING DAYS and **BUN TIMES** individually back to their defaults.

- 1. To upload Program Recall Feature turn the dial to ALL OFF and press < and Simultaneously−LOAD UP will appear on the screen
- 2. Press P to complete the process

- 3. To re-install Program Recall Feature turn the dial ALL OFF and press ≥
- LOAD will appear on the screen
- Press P to return to the original stored program

Installation

Mounting Controller

- Install the controller near a 240VAC outlet-preferably in a house, garage, or exterior electrical cubicle

For ease of operation. eve level placement is recommended

- Ideally, your controller location should not be exposed to rain or areas prone to flooding or heavy water
- ① This inbuilt controller comes with an internal transformer and is suitable for outdoor or indoor installation

Power Supply Connections

It is recommended that the transformer is not connected to a 240VAC supply also servicing or supplying motors (such as air conditioners, pool pumps, refrigerators)

- The housing is designed for outdoor installation but the plug needs to be installed in a weatherproof socket or under cover
- G Fasten the controller using the key hole slot positioned externally on the top centre and the additional holes positioned internally under the terminal cover

 Lighting circuits are suitable as power sources

Electrical Hook-up

- ▲ Installation must be carried out in accordance with these instructions and all Local, State and Federal codes
- Disconnect all 240VAC power before commencing any wiring or valve connection
- Avoid connecting to a 240VAC supply also servicing motors (ie. pool pumps, refrigerators, etc.)

Field Wiring Connections

- Prepare wire for hook-up by cutting the wires to the correct length and stripping approx. 6mm of insulation from the end to be connected to the controller
- A maximum of 2 solenoid valves can be run off each output
- Ensure terminal block screws are loosened sufficiently to permit easy access for wire ends

- Insert stripped wire ends into the clamp aperture and tighten screws
- Do not over tighten as this may damage the terminal block
- A maximum of 0.75 amps may be supplied by any output
- Check the inrush current of your solenoid coils before connecting more than two valves to any one zone

Terminal Block Layout

TERMINAL BLOCK ST4 ST5 ST6 ST7 ST8 ST9 24VAC ST2 ST3 6. 24VAC — 24VAC power 9. PUMP 1—Master valve supply connection or pump start output 7. **COM**—Common wire 10. ST1-ST9-Zone (valve) field connections connection to field wiring

- 8. SENS—Input for rain switch
- Use a 1 amp fuse

Master Valve Installation

- E For a detailed illustration of valve installation. view page 32

The purpose of the master valve [connected to the PUMP terminall is to shut off the water supply to the irrigation system when there is a faulty valve or none of the zones are operating correctly

It is used like a backup valve or fail safe device and is installed at the start of the irrigation system where it is connected to the water supply line

Bain Sensor Connection

A For a detailed illustration of rain sensor connection. view page 32



A rain sensor detects rainfall. and tells the controller to suspend watering, resuming

after the sensor dries out

This is wired between the SENSOR TERMINAL [SENS] and the COMMON [COM] as shown below



Zone Valve Installation

- Up to two 24VAC solenoid valves can be connected to each zone output and wired back to the Common [COM] connector
- With long cable lengths, voltage drop can be significant, especially when more than one coil is wired to a zone
- As a good rule of thumb select your cable as follows:
- Ø 0−50m cable dia 0.5mm
- Ø 100−200m cable dia 1.5mm

- When using multiple valves per zone, the common wire needs to be larger to carry more current. In these circumstances choose a common cable one or two sizes larger than required
- When making connections in the field, only ever use gel filled or greased filled connectors. Most field failures occur due to poor connections. The better the connection here, and the better the waterproof seal the longer the system will perform without trouble

Pump Relay Connection

- This controller does not provide mains power to drive a pump-a pump must be driven via an external relay and contactor (pump start) setup
- The controller provides a low voltage signal that actuates the relay which in turn enables the contactor and finally the pump
- Although the controller has permanent memory and thus a default program will not cause erroneous valve actuation, it is still good practice when using a system where the water supply comes from a pump to connect unused zones on the unit back to the last used zone
- This in effect, inhibits the chances of the pump ever running against a closed head

Pump Protection

- In some circumstances not all operational zones may be hooked up-for example, if the controller was capable of running 6 zones but there were only 4 field wires and solenoid valves available for connection
- This situation can pose a risk to a pump when the system test routine for the controller is initiated
- The system test routine sequences through all available zones on the controller

Pump Protection (continued)

- In the above example this would mean zones 5 through to 6 would become active and would cause the pump to operate against a closed head
- A This could possibly cause permanent pump, pipe and pressure vessel damage
- It is mandatory if the system test routine is going to be used, that all unused, spare zones, should be linked together and then looped to the last working zone with a valve on it
- Using this example, the connector block should be wired as per the diagram below

Pump Installation

It is recommended to always use a relay between the controller and the pump starter for single phase pump installation



Troubleshooting

Symptom	Possible Cause	Suggestion
No display	Flat battery <i>or</i> no mains power <i>or</i> fuse blown	Install a charged battery. If the display still doesn't work, then check the transformer or the main power supply. If main power supply is working, check and replace the fuse if necessary
Zone not working	Faulty solenoid coil or broken cable	Swap faulty zone wire on controller terminal block with known working zone wire. If the faulty valve still does not work on the known working connection then the solenoid coil is faulty. The panel may need to be repaired or the cable may be broken
Fuse blows	Incorrect wiring <i>or</i> bad wiring joint	Check wiring and joints for a short circuit
No automatic start	Incorrect programming <i>or</i> blown fuse	If unit works manually check settings. Check fuse and field wiring
System watering at random	Too many start times entered	Check number of start times entered and when they are scheduled to water. Reset the unit if necessary
Multiple zones running at once	Looping program active <i>or</i> faulty driver triac	Check if looping program is active and in multi-zone mode. Check wiring and swap faulty wires on terminal block with known working zones. If same outputs are still locked on, contact <u>Customer Service</u>
Pump start chattering	Faulty relay or pump contactor	Electrician to check voltage on relay or contactor
Display cracked or missing segments	Display damaged during transportation	Contact Customer Service for support
		Ensure RAIN SENSOR switch is ON
Rain Sensor input not working RAIN SENSOR switch is OFF or faulty wiring	RAIN SENSOR switch is OFF or	Test all wiring and ensure Rain Sensor is a normally closed type
	Check programming to ensure Rain Sensor is enabled	

Electrical Specifications

Electrical Outputs

Power Supply

- Mains supply: this unit runs off a 240 volt 50 hertz single phase outlet
- The RTC uses a coin cell placed on the back of the board, to get access to the coin cell, remove the screws from the facia, unwire the terminal block and tilt the panel down and swap out the battery
- The controller draws
 30 watt at 240VAC
- The internal transformer reduces the 240VAC to an extra low voltage supply of 24VAC
- The internal transformer is fully compliant with AS/ NZS 61558-2-6 and has been independently tested and judged to comply
- This unit has a 1.25AMP low energy, high efficient

toroidal transformer for long life performance

Electrical Power Supply

Ø Input 24 volts 50/60Hz

Electrical Outputs

Maximum of 1.0 amp

To Solenoid Valves

- 24VAC 50/60Hz 0.75 amps max
- Up to 2 valves per zone on the inbuilt model

To the Master Valve/ Pump Start

- Transformer and fuse capacity must be compatible with output requirements

Electrical Specifications

Overload Protection

Standard 20mm M-205 1 amp fast blow glass fuse, protects against power surges and electronic fuse rated to 1AMP protects against field faults

Faulty zone skip function

Wiring

Output circuits should be installed and protected in accordance with wiring code for your location

Power Failure

- The controller has permanent memory and real time clock, so the data is always backed up even with the absence of all power
- The unit is factory fitted with a 3V CR2032 lithium battery with up to 10 years memory backup
- The 9V alkaline battery maintains the data during power outages, and is recommended to help maintain the life of the lithium battery

A Tampering with the unit will void the warranty

The batteries do not run the outputs. The internal transformer requires mains power to run the valves

Servicing

Servicing your Controller

- The controller should always be serviced by an authorised agent.
- Follow these steps to return your unit:
- 1. Turn the mains power off to controller
- If controller is hard-wired. a qualified electrician is required to remove the entire unit, depending on the fault
- 2. Proceed to either unplug and return the entire controller with transformer or disconnect the panel assembly only for servicing or repair
- Disconnect 24VAC leads at the controller 24VAC terminals on very left hand side of the terminal block
- Clearly mark or identify all valve wires according to the terminals they are connected to. (1-9)

- This allows you to easily wire them back to the controller and maintain your valve watering scheme
- 5 Disconnect valve wires from the terminal block
- 6. Remove the complete panel from the controller housing by unscrewing the two screws in the lower corners of the fascia (both ends of the terminal block)
- 7. Remove the complete controller from the wall unplugging the lead
- 8. Carefully wrap the panel or controller in protective wrapping and pack in a suitable box and return to your service agent or manufacturer
- 9. Replace your controller panel by reversing this procedure
- A Tampering with the unit will void the warranty



Warranty

5 Year Replacement Guarantee

Holman Industries offers a 5 Year replacement guarantee with this product.

In Australia our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

As well as your statutory rights referred to above and any other rights and remedies you have under any other laws relating to your Holman product, we also provide you with a Holman guarantee.

Holman Industries guarantees this product against defects caused by faulty workmanship and materials for 5 Years domestic use from the date of purchase. During this guarantee period Holman Industries will replace any defective product. Packaging and instructions may not be replaced unless faulty.

In the event of a product being replaced during the guarantee period, the guarantee on the replacement product will expire 5 Years from the purchase date of the original product, not 5 years from the date of replacement. To the extent permitted by law, this Holman Replacement Guarantee excludes liability for consequential loss or any other loss or damage caused to property of persons arising from any cause whatsoever. It also excludes defects caused by the product not being used in accordance with instructions, accidental damage, misuse, or being tampered with by unauthorised persons, excludes normal wear and tear and does not cover the cost of claiming under the warranty or transporting the goods to and from the place of purchase.

Should you suspect your product may be defective and need some clarification or advice please contact us directly:

1300 716 188 support@holmanindustries.com.au 11 Walters Drive.

Osborne Park 6017 WA

If you are certain your product is defective and is covered by the terms of this warranty, you will need to present your defective product and your purchase receipt as proof of purchase to the place you purchased it from, where the retailer will replace the product for you on our behalf.





For support email info@k-rain.com.au or contact the friendly Customer Service team at Holman Industries on 08 9416 9999



Supplied and Serviced





We really appreciate having you as a customer and would like to say thank you for choosing us.

We recommend registering your new product on our website. This will ensure we have a copy of your purchase and activate an extended warranty. Keep up to date to with relevant product information and special offers available through our newsletter.



Scan here, or visit <u>k-rain.com.au/register</u> for more info