



Technotes
WP SERIES

WP 2 / WP 4 / WP 6 / WP 8

09/2004

F	1	D	86
GB	18	NL	103
E	35	Tk	120
P	52	Gr	137
I	69		

WIRING TO THE ELECTRIC VALVE



Controller capacity

1 Rain Bird 9V latching solenoid per station and possibility to use 1 master valve equipped with a Rain Bird 9V latching solenoid for the system

Make sure all wire from the controller to the valves is code-approved for underground low voltage use. Select the suitable wire size. All connections to the valve leads and any splice in the field must be watertight. Use Rain Bird Quick Connect “King” connectors supplied with the product or “DBY” connectors.

See wiring diagram below.



24 Vac



Rain Bird 9V
latching
solenoid

Master valve :

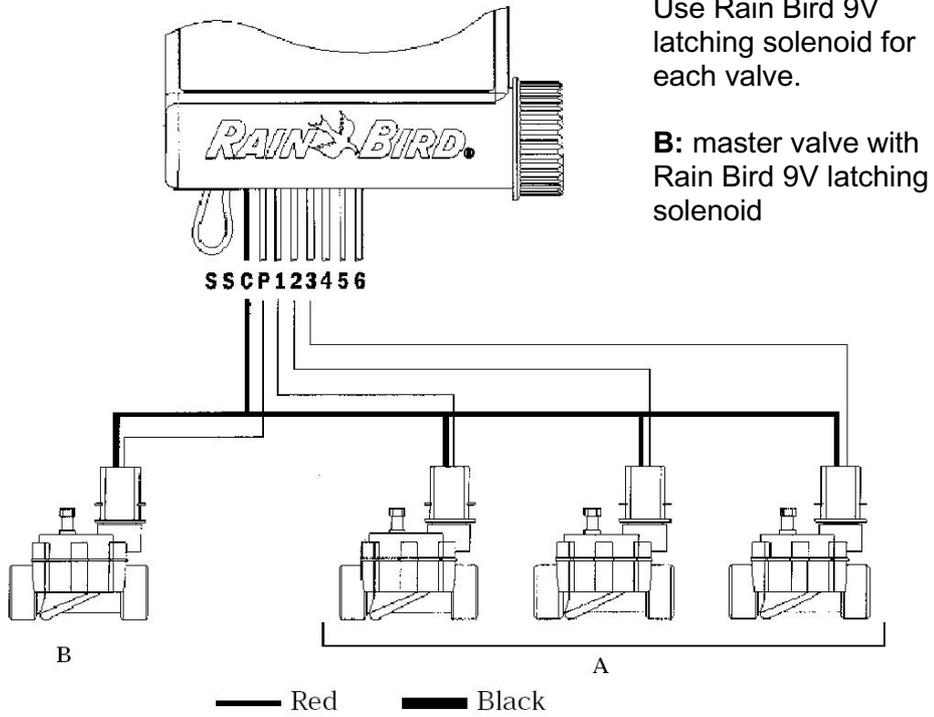
The terminal marked “P” is used to activate a Master Valve. It is **STRONGLY RECOMMENDED** to use a Master Valve to ensure proper operation of your system in case, for example, the valve wiring is accidentally cut, etc

Important :

Maximum distance between the controller and the valves using wire sized 1.5mm²: 30m

WIRING TO THE ELECTRIC VALVES

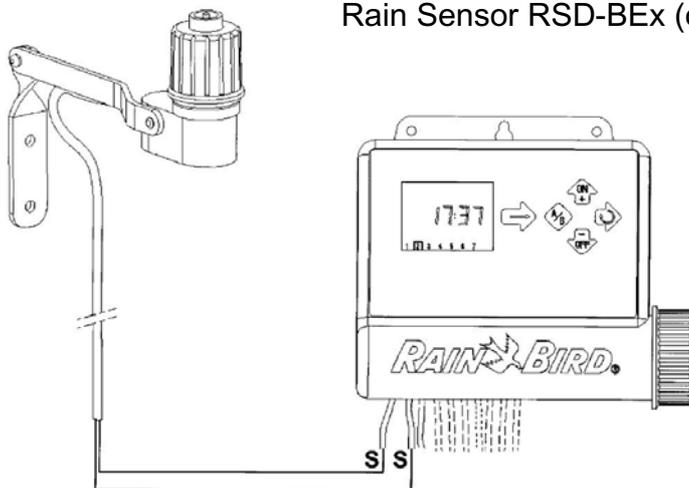
GB



WIRING TO THE RAIN SENSOR

GB

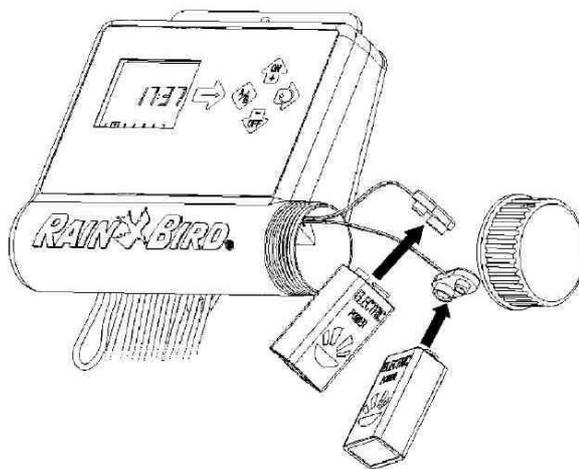
Rain Sensor RSD-BEx (option)



Active Rain Sensor input immediately stops watering if it rains.

Note: The  icon will appear in all screens when the rain sensor is activated.

CONNECT THE BATTERIES



Start-up / Programming:
Connect 2- top-grade 9V alkaline
batteries (6AM6/6LR61) Varta or
equivalent.

As soon as the batteries are
installed, this screen appears:



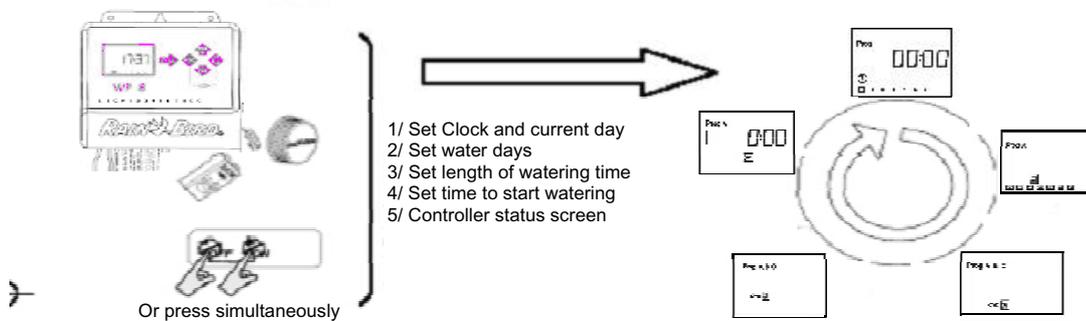
Always replace both batteries
simultaneously

Note: To prolong battery life, the screen automatically goes blank after 1 minute if no keys are pressed.



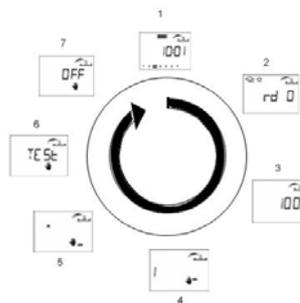
Important : This icon means you must replace batteries. Use only a top quality brand such as Varta or equivalent.

ACCESS TO PROGRAMMING AND BASIC MENU



BASIC MENU

- 1/ Ecran par défaut (écran d'état)
- 2/ Réglage du Rain Delay
- 3/ Water Budget
- 4/ Démarrage manuel d'une station
- 5/ Démarrage manuel d'un cycle
- 6/ Test de toutes les stations
- 7/ Position ON/OFF



1.1/ PROGRAMMING MENU



WP-series have a « protected » programming menu to avoid accidentally modifying the programming schedules. You can access this menu by :

- Connecting the batteries

- Pressing both keys simultaneously  and .

Note : As soon as you are in the programming menu, " **PROG** " appears on the screen.

Set clock and day

Note : if those 3 parameters are already set, press the  key to move to next screen.

1.1.1/ Set current time of the day

Use the  and  keys to set the hours.

To confirm and move to next step press the  key.

Use the  and  keys to set the minutes.

If you want to go directly to the next step and confirm this setting press the  key.

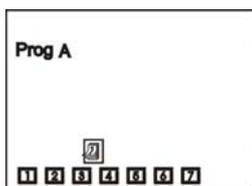
1.1.2/ Set current day.

Press the  key to move the square cursor through the days of the week numbered 1 to 7 (1= Monday, 2= Tuesday, etc.). Place the cursor on the current day of the week.

Example: Today is Wednesday. Place the cursor on « 3 ».

Press the  key to confirm and move to the next screen.

1.2/ Set water days



Press the  key to move the square cursor through the days of the week numbered 1 to 7.

Use the  and  keys to set or cancel water days.

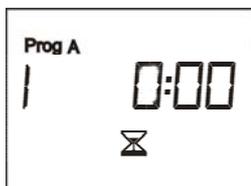
The  key cancels water days and the square disappears.

To set a water day, place the cursor on the corresponding day number and press the  key.

Press the  key to set water days for the next program if desired. Repeat the above steps to set or cancel water days.

Press the  to confirm and move to the next screen.

1.3/ Set the length of watering time per station and assign each station to a program



Use the  and  keys to set the station watering time from 1 minute to 12 hours in 1-minute increments. The station watering time appears in hours and minutes

Move to the next station by pressing the  key.

Repeatedly press the  key to assign the station to the selected program. Once you set station watering time and assign a station to a program, move to next screen by pressing the  key.

1.4/ Set time of the day to start watering



You can start a watering cycle up to 8 times per day and per program if you prefer short watering cycles. Select the desired program by pressing the  key to set the first start time;

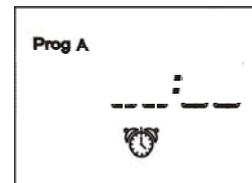
Use the  and  keys to set the first start time. Then press the  key to move to the next start time.

Repeat above procedure;

Note: It is not necessary to use all 8 start times. The controller will automatically file your start times in chronological order from 00:00 to 23:59.

To cancel a start time : Press the  key to display the start times. When you see the start time you want to cancel, press the

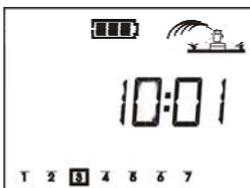
 or  keys until you see this screen (between 11 :59 and 12 :00 and between 23 :59 and 00 :00).



Once all start times are set for all your programs, basic programming is complete.

Press the  key to leave the programming menu and move to controller status screen.

2.1/ Controller status screen

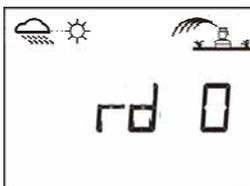


You have now completed all programming for automatic irrigation. This screen shows current time, system ON/OFF, etc. When screen is blank, this screen will appear if you press any key.

Note: to return to the programming menu press both the  and  keys simultaneously.

Optional functions follow. Press the  key.

2.2/ Réglage du Rain Delay



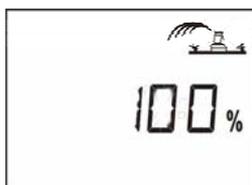
You can delay watering from 1 to 15 days during rainy weather.

Press the  or  keys to make the settings. The  icons and  icon appear in all screens. Each day the controller counts down the number of days remaining before automatic irrigation programs will resume normal watering schedules. Restart is automatic.



Note: To cancel a Rain Delay, access the screen and reset the number of days to 0. Remember that it is impossible to manually start irrigation during a Rain Delay.

2.3/ Water Budget



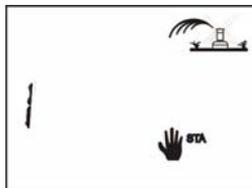
The controller has a Water Budget function used to adjust watering time for all programs from 0 to 200%, without re-setting the length of watering time for each station. A setting of 100% means that all stations will run according to their programmed watering time. The Water budget feature can be useful for cutting back watering during cool winter months, or for increasing watering during periods of unusual heat.

Use the  and  keys to increase or decrease the watering time in 10% increments.

Example : « 80 » in the display means you have reduced watering time by 20% on all stations. An initial duration of 10 minutes which you previously programmed will be cut to 8 minutes. The increased or decreased run time will not appear in the display. However, the % icon appears on the controller status screen when the water budget is being used.

To turn off the Water Budget, access the % screen and set the water budget percentage to 100%.

2.4/ Manual single station start



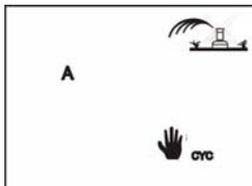
Use the  key to select the desired station.

Then press the  key. Watering starts and is indicated on the screen by a blinking sprinkler stream. The display counts down the remaining programmed watering time in 1-minute increments. It corresponds to the watering time set in step 1.3.

If you wish to stop watering before the programmed time is completed, press the  key. The blinking stream disappears.

Note : Water Budget does not operate in the manual single station mode.

2.5/ Manual cycle start



A cycle consists of the sequential operation of all stations assigned to the same program. Use the  key to select the program. Then press the  key to start the cycle. The sprinkler stream will blink.

The 1st station number in the program appears and the remaining watering time for the station is counted down. The rest of the stations will appear in sequence.

To stop watering before the cycle is completed, press the  key. The controller will revert to the controller status screen.

2.6/ Test of all stations



This function tests all the stations connected to the controller using a 2-minutes cycle and allows you to check that your irrigation system is working properly.

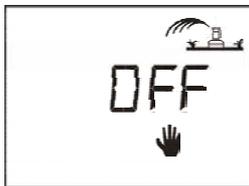
Then press the  key to start the cycle test.

To move to the next station before the watering time of the previous station is completed press the  key.

During the test period, « TEST » and remaining watering time will be displayed alternatively on the screen.

To stop the test press the  key

2.7/ System On/Shutdown



The default mode is "On" which allows programmed watering to take place.

You can prevent watering (rainy weather shutdown) without changing the scheduled watering programs.

ON and OFF blink on the screen along with the cross on the sprinkler. Press the  key to prevent watering. The cross stops blinking

If you move through the menu by pressing repeatedly the  key, you will see that the non-blinking cross appears in all the displays except one. No watering, either automatic or manual, will take place.

To return to the watering mode, press the  key until the blinking cross display appears in the screen above.

Now press the  key. The cross disappears.



TROUBLESHOOTING

Symptom	Possible cause
Station does not come on	<ul style="list-style-type: none">• Make sure a 9V latching solenoid is used• Check electric wiring• No run time has been set for the station• Sensor system is preventing irrigation• Start time has not been entered for the program to which the station is assigned• Water budget for the station's program is set to 0%
I remove batteries from the controller but the irrigation continues	<ul style="list-style-type: none">• Battery powered controllers operate by impulses. To stop watering, the electric valve needs to receive a shutdown impulse. Removing batteries prevent the controller from sending the shutdown impulse.

TECHNICAL ASSISTANCE



If you are not able to solve a problem with your controller, please contact your authorised Rain Bird after-sales service.

For further information, please contact :

Rain Bird Europe
900, rue Ampère, BP 72000
13792 Aix en Provence Cedex 3
France
Tél : (33) 4 42 24 44 61
Fax : (33) 4 42 24 24 72
sav@rainbird.fr

WARRANTY

A Rain Bird 3-years warranty covers this product.
For further details, please consult our turf catalog.



DECLARATION OF CONFORMITY TO EUROPEAN DIRECTIVES

I declare that the WP-series type devices, an irrigation controllers, conforms to the European Directives 89/336/CE and 93/91/CEE concerning electromagnetic compatibility. The WP Series is battery powered. General information about your WP Series controller is located on the back of the unit.

Aix en Provence, 12/08/2004
General Manager
RAIN BIRD EUROPE

Signature