

RAIN-PRO VYR PG-6045

Irrigation Programmer

***Installation Instructions,
Programming and Operation.***



VYRSA





Head Quarter Office

Polígono Industrial N-1, Monte de la Abadesa, Parcela 3801, 09001 BURGOS, ESPAÑA.
P.O. Box 313. Tel.: +(34) 947 26 22 26 Fax: +(34) 947 26 21 24

www.vyrsa.com

e-mail:vyrsa@vyrsa.com



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1. INSTALLATION SPECIFICATIONS



- **INSTALLATION:** Indoor/Outdoor. Waterproof case IP-65.

- **WORKING VOLTAGE:**

Input: AC 230V OR AC 110V, 35VA

Output: AC 24V, 300 mA

- **Controller connection:**

AC24V: Providing power for both controller and electromagnetic valve.

C: Common terminal: Common terminal for rain sensor and electromagnetic solenoid-valve.

R: Rain sensor terminal, usually it will not to be connected with C terminal. Rain sensor will interrupt when raining.

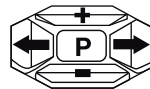
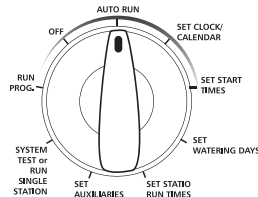
1-11: Connection for 24Vac solenoid valve of each station.

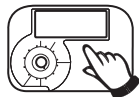
2. TECHNICAL SPECIFICATIONS



- NUMBER OF STATIONS: Available in 4,6,9 or 11 stations configuration (with water pump or master valve).

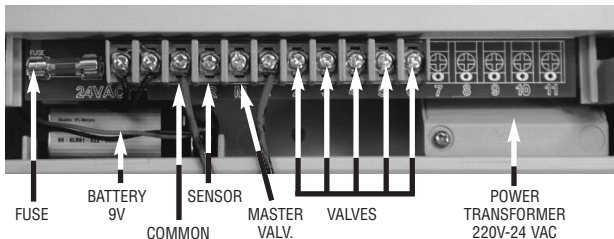
- PROGRAMS & STARTS: 6 separate programs, each of which has 6 start times.
- RUNNING TIMES: 1 minute to 12 hours 59 minutes for each station.
- IRRIGATION SCHEDULE: 7 days, odd/even day, selectable from per day to every 15th day.
- RAIN SENSOR: Rain sensor can be connected outside and it will be interrupted during raining. On/off function for rain sensor.
- DELAYS BETWEEN MASTER VALVE (MV) OR PUMP, & STATIONS: Synchronization between water pump and station. While the magnetic valve starting, the water pump will be put into operation simultaneously or with a delay.
- MASTER VALVE (MV) OR PUMP: Water pump will be put into operation simultaneously.
- WATER BUDGET %: Allow quick adjust water flow from 10% to 200%.
- STAND-BY BATTERY: Keeps clock and selected parameter while power supply interrupt.





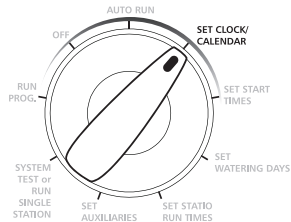
3. CONNECTION

Install backup battery (Type: 6LR61), then connect to AC power.

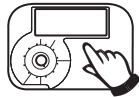


4. SET TIME

Turn dial to **SET CLOCK / CALENDAR** to set current time & correct day. Press + or - to adjust the hours. Using →, press + - adjust the minutes. After clock was set, press ← twice to adjust the calendar. Date will be “year, month, day” and week, odd even day display automatically during adjusting. Press will → return clock.



5. SET START TIMES

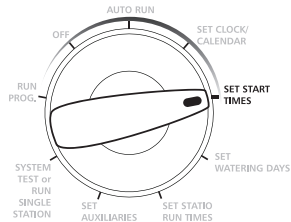


Turn the dial to **SET START TIMES** to set start time of irrigation, there are 36 start time can be used totally.

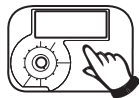
PROG NO corresponding to each programmable group, **START NO** corresponding to schedule of each program. Using \rightarrow \circ \leftarrow will move to relevant setting.

After 6 start time for PROG NO 1 were finished, press **P** to select PROG NO 2 for next schedule.

Total 6 programmable group will be set by same way. If less than 6 starting time needed, it can be cancelled by press **+** or **-** up to display **OFF** during setting hours.



6. SET WATERING DAYS

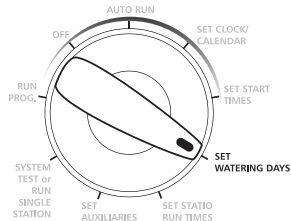


Turn the dial to **SET WATERING DAYS**, there are 6 groups to be set. The **PROGNO 1** will display first. This is to set interval watering time for No.1 group.

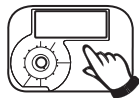
When week position lighting, press + or - setting or cancel the watering time of that week, after week moving, **ODD** will display as odd day and **EVEN** as even day, watering on odd day or even day can be selected.

Using → to interval days watering selection, press + or - under **NO WATER** will make a selection, how may day will begin watering under **INTERVAL DAYS**. Using → to set **INTERVAL DAYS**, press + or - button to select interval days.

After **PROG NO 1** finishing, press **P** for **PROG NO 2** interval days setting and the rest to be set accordingly until 6 groups interval days to be set.



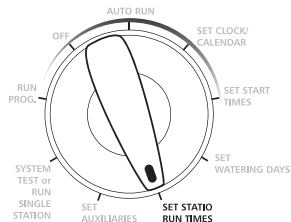
7. SET STATIONS RUN TIMES



Turn the dial to **SET STATION RUN TIMES** to set running time for each station. **Station No** show relevant station. Press → or ← and + or - to set running time for selected station.

The **RUN TIME** can be set to “0:00” if watering not need.

After 1-6 points for this **STATION NO** finished, press **P** to set running time of each points of following station.

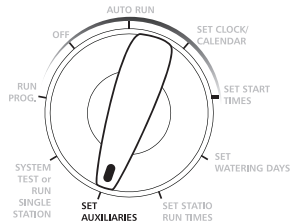
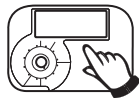


8. SET AUXILIARIES

Turn the dial to **SET AUXILIARIES** to set auxiliary function during irrigation which like: If each station need to be controlled by rain sensor, if each station work together with water pump, if need delay between pump and each station and delay among each station.

- **SENSOR DELAY**

The station 1 will be displayed first to make selection for if rain sensor controlling needed, using → then press + or - selecting **ON** or **OFF**, press **ON** then using → twice to set delay time (from 0 to 240 hours) of rain sensor. This mean a specific delay time after the rainy sensor with an indication of dried out and the watering of relevant station will be closed after this delay. Using → returning control menu to set rain sensor controlling for rest station.



8. SET AUXILIARIES

• PUMP SET

Press **P** return main menu to set next function.

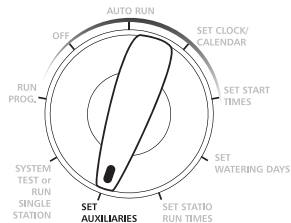
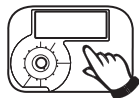
When **Per 1** display, press **P** again to the status of station will running together with pump, press **+** or **-** to select station, after using **→** then press **+** or **-** again to select **ON** or **OFF** to decide if need the station and pump running together.

• PUMP DELAY

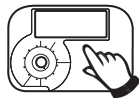
Press **P** button again into **PUMP DELAY BETWEEN** to select delay time that is the time lags between the pump begin working and the relevant station. It can be set from OFF to 99 seconds.

• STATION DELAY

Press **P** into **STATION DELAY**, this mean delay time among each station. If 10 seconds were set, this station will start running 10 seconds later than former station stop. The others will be set as same as above. Using **+** or **-** and **→** or **←** to finish setting, this time can be set from OFF to 99 seconds.



9. TEST SYSTEM

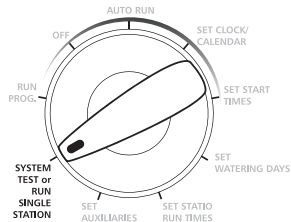


Turn the dial to **SYSTEM TEST** to set manual testing and function for each station.

Press **+** or **-** and **→** or **←** to select relevant station and running time. Pressing **P** again, the manual operation was operated immediately and will stopped after running once, then **“single”** was displayed in the left bottom of the Led.

During operation, press **P** button again which can stop manual running.

Press **←** and **+** at same time, the **“multi”** will display in the left bottom of the led. This mean, it can be run continually once for manual setting time of more stations. Press **+** or **-** select station, using **→** then press **+** or **-** again to set running time, press **←** again to return station selection. After run time for each station to be set, pressing **P**, the all station will be run in turn once, the running can be stopped temporarily by pressing **P**.

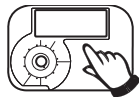
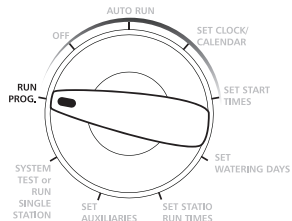
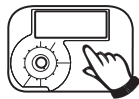


PROGRAMMING AND OPERATION

10. RUN PROGRAM MANUALLY

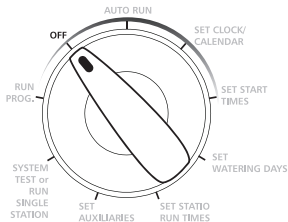
Turn the dial to **RUN PROGRAM** enable one or more programs (Among 6 programs) to run a manual operation once.

Press **P** button select programs No. and press **+** or **-** button to make relevant program **ON** or **OFF**, after 6 programs to be set, press **→** button, the program with **ON** will running and press **P** button the operation will halt for 10 minutes, The **HOLD 10:00** will be displayed, press **P** again, the running will renew. After manual programs running, the system will return to automatic running status.



11. SHUT - OFF CONTROLLER

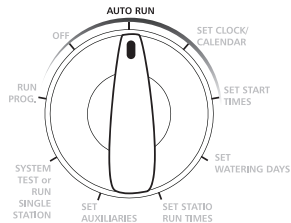
Turn dial to **OFF** to close all the function of this controller.



12. AUTO RUN MODE

Turn dial to **AUTO RUN**, this mean the controller will be automatic running status after setting. It will be operated automatically with watering parameter that to be installed from step No.2 to No.6. During automatic running, press ← will indicate current date, press → will return clock status. Under clock status and press →, the flow of irrigation can be adjusted 10% to 200% by press button + or -.

This mean, the running time can be shorten or extended proportionally (under all parameter no change) to adapt the requirement in different season.





13. TECHNICAL SUPPORT

In case that you need any type of technical assistance, please contact with your nearest VYRSA Authorized Distributor or Installer, contact us at vyrsa@vyrsa.com or by calling at (SPAIN) **+34 947 26 22 26** during our office hours.

14. WARRANTY

VYRSA warrants all our control system products to be free of defects in materials or workmanship under normal use for a period of three (3) years from the original date of manufacture. All our sprinkler and accessories products are warranted to be free of defects in materials or workmanship under normal use for five (5) years from the original date of manufacture. In case that VYRSA detects any defect during the warranty period on any of our products, VYRSA will repair or replace, at its option, the product or the defective part.

VYRSA warranties does not extend to repairs, adjustments, or replacement of any of our products or part that results from misuse, negligence, alteration, tampering, modification or improper installation and/or maintenance of the product. This warranty extends only to the original installer of the VYRSA product.

In case that a defect appears in a VYRSA product or part during the warranty period, you should contact your local VYRSA Authorized Distributor.

VYRSA'S OBLIGATION TO REPAIR OR REPLACE ITS PRODUCTS AS SET FORTH ABOVE IS THE SOLE AND EXCLUSIVE WARRANTY SET FORTH BY VYRSA. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. VYRSA WILL NOT BE LIABLE TO ANY PARTY IN STRICT LIABILITY, TORT, CONTRACT OR ANY OTHER MANNER FOR DAMAGES CAUSED OR CLAIMED TO BE CAUSED AS A RESULT OF ANY DESIGN OR DEFECT IN VYRSA PRODUCTS, OR FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE.

If you have any questions concerning the warranty or its application, please write to:

VYRSA • Polig. Ind. N-1 • 09001 Burgos, SPAIN



15. SOLUTIONS FOR TROUBLESHOOTING

1. The controller doesn't start at the programmed running times.

Make sure that the **WATER DAYS** and **RUN TIMES** are selected.
Make sure that the **PAUSE** and **JUMP** modes are unselected.
Make sure that the power is ON.

2. When connecting the battery the controller doesn't start up.

Make sure that the cable or the positive or negative poles are not broken.

3. The solenoids doesn't work properly.

Make sure you are using 24Vac solenoids.
Make sure the wires are properly connected.
The distance in between the controller and the solenoids must not be more than 300 meters. Check the technical specifications of the solenoids that you are using or ask our tech-department.
Make sure the solenoids are clean in the inside and that water going through the solenoids has been previously filtered on a 120 micron screen.

4. The MASTER VALVE or PUMP doesn't start

Make sure the **PUMP** mode has selected **ON** every station that you want the **MV** to be running at the same time.

5. The running time is different from the one in the programs.

Make sure that the **WATER BUDGET** is not different from 100%.