

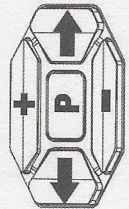
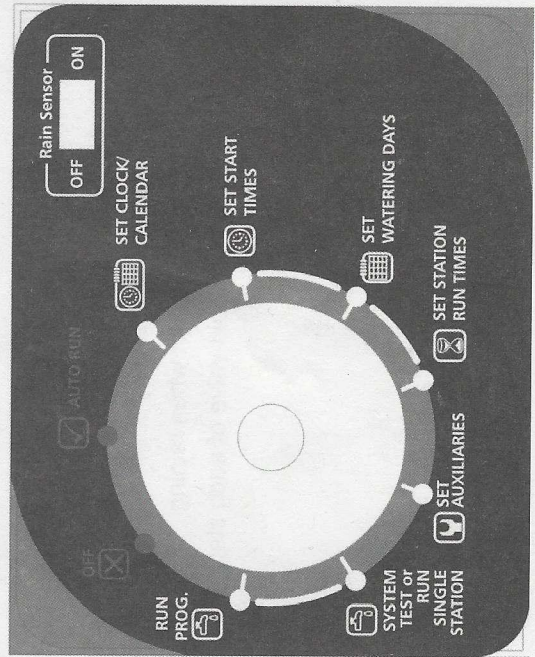
Multi-station controller

INSTRUCTION MANUAL

Technical specification:

1. Station quantity: 11 stations configuration
2. Working voltage: Input: AC 230V/240V, Output: AC 24V
3. Installation: please keep it inside of outdoor waterproof tank,
4. Programmable groups: 6 separate programs, each of which has 6 time control.
5. Running time: 1 minute to 12 hours 59 minutes for each station.
6. Irrigation schedule: 7 days, odd/even day, selectable from per day to every 15th day.
7. Rain sensor can be connected outside and it will be interrupted during raining.
8. Synchronization between water pump and station: While the magnetic valve starting, the water pump will be put into operation simultaneously.
9. Water pump will be put into operation simultaneously.
10. Water budgeting: Allow quick adjust water flow from 10% to 200%.
11. Standby battery: Keep clock and selected parameter while power supply interrupt.

Operation Manual:



1. Install backup battery (Type: 6LR61), then connect to AC power.
2. Turn dial to "SET CLOCK" to set current time & correct day. Press "➡" or "←" to adjust the hours. Using "➡", press "➡" "←", 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.
3. 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 "➡" or "←" 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 canceled by press "➡" or "←" up to display "OFF" during setting hours.
4. 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.
5. 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.
6. Other features:
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.
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 means 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.

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.

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.

Press "P" into "STATION DELAY", this means 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.

Note: The design for delay time between station and pump, station between station is to consider that the water channel is so long that it's necessary to make the pump running in advance or delay between switch each station to keep water pressure at certain degree. The irrigation to be controlled by this controller is running in turns. In this way, the water pressure can be stable and the effect of the watering will be better. Meanwhile, the using of delay time need to note that the mouth of some pumps should be open when they are running therefore the delay time should be prevented in such case.

7. 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 "mult" will display in the left bottom of the led. This means, 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".

8. 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 be 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.

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

10. Turn dial to "AUTO RUN", this means the controller will be at 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 means, the running time can be shorten or extended proportionally (under all parameter no change) to adapt the requirement in different season.

Controller connection:

AC24V: Providing power for both controller and electromagnetic valve.

C : Public terminal: Public terminal for rain sensor and electromagnetic valve.

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

1-9: Connection for solenoid valve of each station.