YL10104 Manual

YL10104 is a 4 station controller, which can be the main control unit for a 4-way irrigation system, including a 4-way water distributor, which can be connected to 4 solenoid valves.

Specification:

- Working voltage: DC 3V

- Battery: 2 *AA alkaline battery

- Static current: ≤60uA

- Drive pulse width: 100ms, pulse height: 18v

- Low voltage sign blinks at ≤2.4V

- Working water pressure: 0.5-8 BAR

- Working water temperature: 5-60℃

How to install:

1. Connect controller to 4-way water distributor inlet, connect 4-way water distributor outlet to solenoid valve.

2. Install 2 *AA alkaline battery on controller, set desired program.

3. Remove plug of the connection port on controller and connect solenoid valve to the connection port. Keep the plug in place on the connection port, to protect it from water, if the connection port

is not connected to solenoid valve.

4. Check if correctly connected, then test-run with manual watering function, to check if all valve is working well.

5. Rain sensor connection: the bigger port at right top side is for rain sensor connection. If not connected to rain sensor, it is shortcut with metal strip. If to be connected to rain sensor, this metal strip shall be removed, and the two points shall connect with the wire of the rain sensor, then when controller will not open valve during rainy days, to save water.

rain sensor

Explanation of buttons and Dial:

A. Explanation of the 5 buttons

MAN / OK **:** In Auto Run mode, press this button, you can set the manual

watering time for each of the 4 stations. In other setting mode, this is the button of OK, to confirm settings.

■: add numbers or confirm selection

■: minus numbers or cancel selection

▶: move arrow to the right

◀: move arrow to the left

B. Explanation of the dial

OFF: shut off all irrigation

RUN: Auto run mode, which means all the set programs will run automatically

SET CLOCK: set current clock time

STATR TIME: set the start watering time for each station

HOW LONG: set the watering duration for each station, range is from 1 min to 180 min

HOW OFFEN: set the watering frequency of each station, there is two way, one is day of the week (eg. Monday, Tuesday …Sunday), the other is how many days (from 1 day, 2 days …to 15 days)

How to use:

1. Turn Dial to **SET CLOCK**, install 2 *AA alkaline battery, screen will blink with "24：00"

2. Press " ▶ " or " ◀ " button to select time mode, in either 24H way(from 00:01 to 24:00), or 12H way(from 00:01 am, to 12:00 pm), press " MAN/OK " button to confirm. Then press " ➕ " or " ➖ " button to set clock time, press " MAN/OK "button to confirm setting for hour, and then press " ➕ " or " ➖ " button, to set minutes, and confirm by pressing " MAN/OK " button. Further press " ➕ " or " ➖ " to pick week of the day, and confirm setting by pressing " MAN/OK " button.

3. Turn dial to **STATR TIME,** to set start watering time. Then **"A"** will blink**,** press " ▶ " or " ◀ " button to select the program, press " MAN/OK " button to set start watering time by pressing " ➕ " or " ➖ " button , with " MAN/OK " button to confirm setting, then repeat above steps to finish the setting for the other 3 CYCLEs. **(B, C, D)**

4. Turn dial to **HOW LONG,** to set watering duration for each station. Then station **#"1"** will blink. **Press** " ▶ " or " ◀ " button to select the desired station, press " MAN/OK " button to confirm and then go to set the time, by pressing the " ➕ " or " ➖ " button, and press " MAN/OK " button to confirm setting, and then repeat above steps to finish the setting for the other 3 STATIONs. **(2, 3, 4)**

5. Turn dial to **HOW OFFEN,** to set watering frequency for

each station. Week of the day, **"MO"**(means Monday) will blink. Press "▶" or "◀" button, then the selected week of the day will blink, press "✚" button to confirm selection(or press "▬" button to cancel selection), then repeat this process by pressing "▶" or "◀" button, and "✚" button, to select the other desired week of the day. When pressing "▶" or "◀" button until "**INTERVAL**" blinks, if then pressing "MAN/OK" button, you can choose how many days as watering frequency(in this way, the pre-selected week of the day is cancelled) by pressing "✚" or "▬" button, setting range is from 1 day to 15 days.

6. "**MANUAL**" watering: is for instant one time watering. In auto RUN mode, press "MAN/OK"button, station # "**1**" will blink(if now press "◀" button, then station # "**1**", "**2**", "**3**", "**4**" will blink at the same time, then press "MAN/OK" button, you can set the manual watering duration of the 4 stations by pressing "✚" or "▬" button), if press "MAN/OK" button, then you can set manual watering duration for station # "**1**" by pressing "✚" or "▬" button, and confirm with "MAN/OK" button. Repeat above steps to finish rest settings for the other 3 stations. Once settings for all 4 station are done, then it will exit the manual watering setting mode in 5 seconds, manual

watering will start immediately with each station in turn.

During manual watering time, you can stop watering by pressing "![MAN OK]" button.

7. Set "RAIN DELAY": this is to be used during rainy days, to let the controller skip watering then. In auto run mode, press "![+]" button, to get into rain delay setting mode, "**24**" will blink, which mean default rain delay is 24 Hours, you can select from 0HRS, 24HRS, 48HRS, to 72HRS by pressing "![+]" or "![−]" button, and confirm setting with "![MAN OK]" button. Setting is saved after 5 seconds, and controller will go back to auto run mode, rain delay is effective now.

8. When low battery sign blinks, you need to replace with new battery, and all the program is not working and valves are all closed.