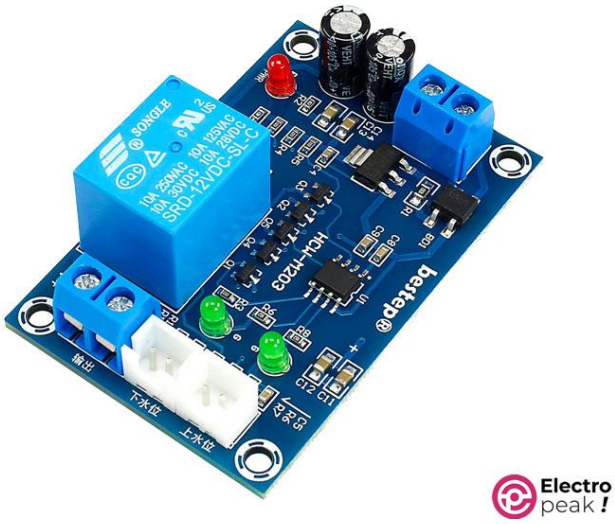
Interfacing Automatic Water Level Controller Module with Arduino

Automatic Water Level Controller Module Features

The XH-M203 Automatic Water Level Controller Module is an essential component for maintaining optimal water levels in tanks and reservoirs. This module is designed to automatically control the water level by activating pumps or valves when the water level drops below a set threshold and deactivating them when the water level reaches a predetermined level. With its simple yet effective design, the XH-M203 ensures reliable and efficient water level management, preventing overflow or underflow situations. Ideal for use in domestic water tanks, industrial reservoirs, and agricultural irrigation systems, this module offers convenience and peace of mind by ensuring a consistent and adequate water supply. Experience hassle-free water level control with the XH-M203 Automatic Water Level Controller Module, ensuring optimal water management for various applications.



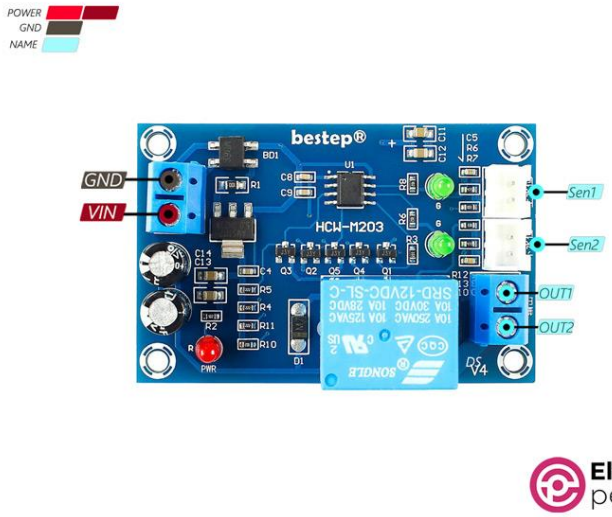
Automatic Water Level Controller Module-1

For more information, you can read this datasheet

Automatic Water Level Controller Module Pinout

The Automatic Water Level Controller Module consists of two power pins, two pins for the pump/valve, and four pins for connecting to the level sensors.

You can see the pinout of this module in the image below.



Automatic Water Level Controller Module-pin

Required Material

Automatic Water Level Controller Module-Required-Materials

Hardware Components

Automatic Water Level Controller Module	1	https://electropeak.com/xh-m203-automatic-water-level-controller-module https://thecaferobot.com/store/xh-m203-automatic-water-level-controller-module
P100 Liquid Level Sensor	2	https://electropeak.com/p100-level-sensor https://thecaferobot.com/store/p100-level-sensor
1-Channel Relay Module - 12V (optional)	1	https://electropeak.com/12v-1-way-low-level-trigger-relay-module https://thecaferobot.com/store/12v-1-way-low-level-trigger-relay-module

12V DC Mini Brushless Water Pump - 350L/h (optional)	1	https://electropeak.com/jt180a-water-pump https://thecaferobot.com/store/jt180a-water-pump
Male/Male Jumper Wires	1	https://electropeak.com/10cm-40p-male-to-male-jumper-wire https://thecaferobot.com/store/male-male-40p-21cm

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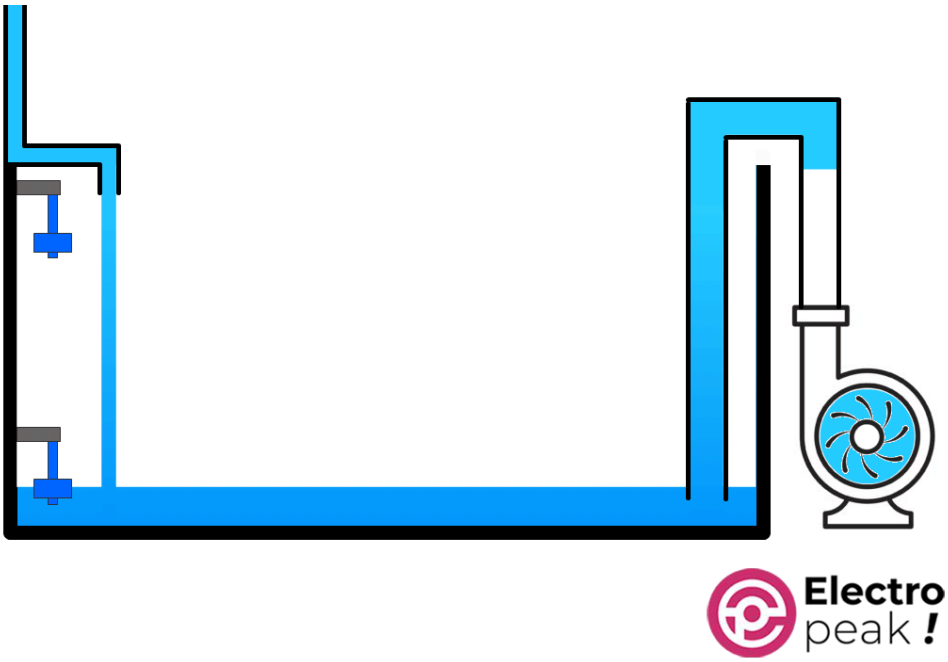
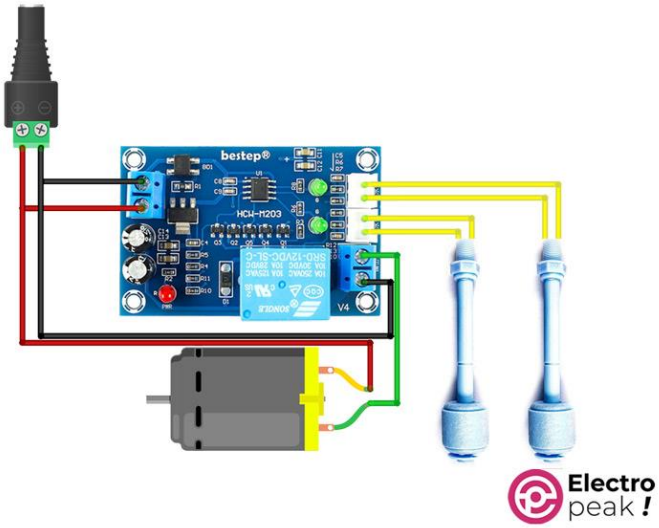
Step 1: Circuit

For usage of this model there is two way to do this

1. pump/valve as Drain the water from tank like this animation

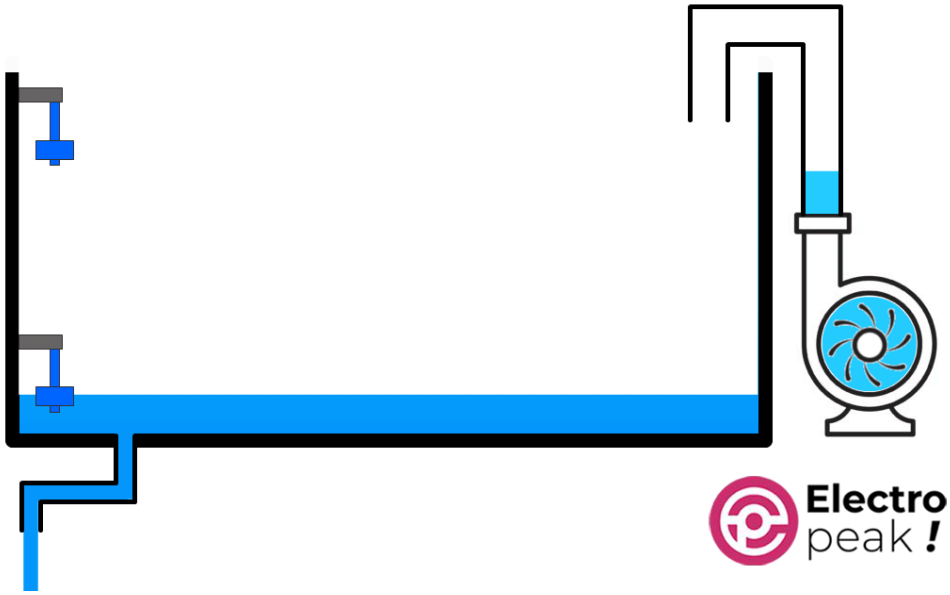


In this method you can simply wiring circuit like blow image

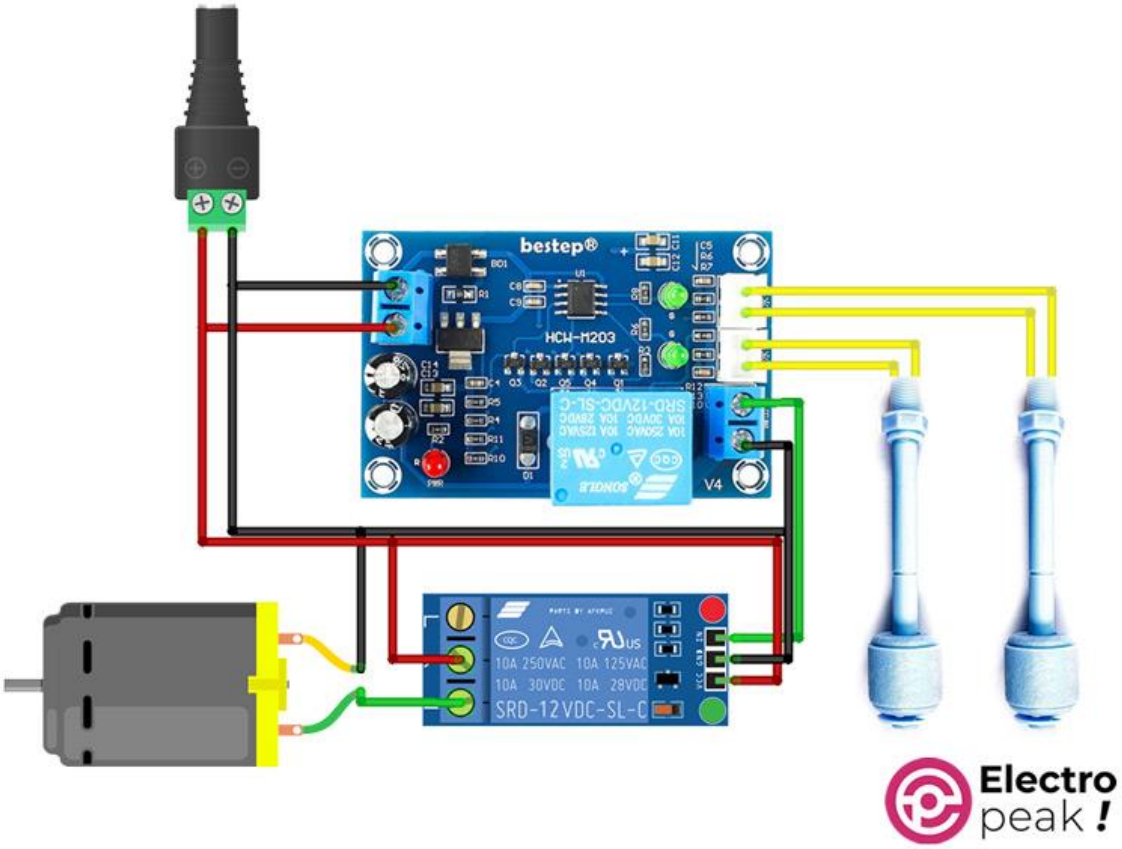


Automatic Water Level Controller Module-wire

2. pump/valve as fill tank like this animation



In this method you need add a relay at output of this circuit to revers function like this circuit.



You can view the module output as shown in the video below.