Reference - WayInTop

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If you have a window garden and are going to be away from home, or you chronically forget to water your plants, the WayinTop's smart watering kit might be a relatively easy high-tech solution.

This kit combines Pump, Tubing, Soil Moisture Sensor and 1Channel 5V Relay Module in one arduino plant watering system, you can simply plant your flower or your herbs in the pot and insert the soil moisture sensor in the soil.

Soil moisture sensor senses the moisture level of the soil. If soil will get dry then sensor senses low moisture level and automatically switches on the water pump to supply water to the plant.

Specifications:

Capacitive Soil Moisture Sensor:
-Operating voltage: 3.3 ~ 5.5 VDC
-Output voltage: 0 ~ 3.0 VDC
-Interface: PH2.54-3P
-Size: 98 x 23mm (LxW)
-Pin: Analog signal output, GND, VCC

1 Channel 5V Relay Module:
-VCC: Connect 5V Positive Pole Power Supply
-GND: Connect 5V Negative Pole Power Supply

Mini Water Pump:
-DC Voltage: 3-5 V
-Outside diameter of water outlet: 0.29"/7.5mm
-Inside diameter of water outlet: 0.17"/4.5mm
-Water inlet diameter: 0.19"/5mm
-Driving mode: brushless dc design, magnetic driving

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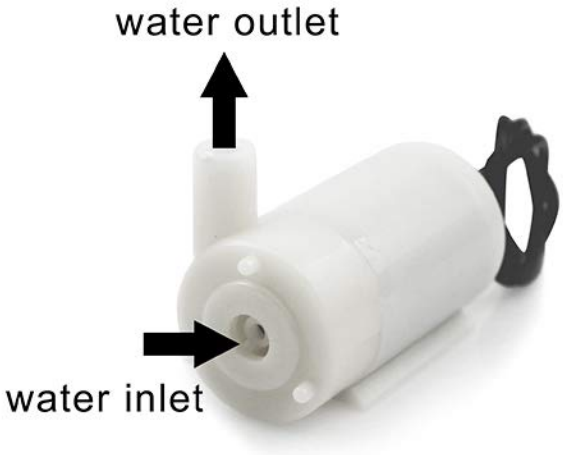
-Continuous working life of 300 hours

Vinyl Tubing:
-Material: PVC
-I.D. Size: 0.22"/5.54mm
-O.D. Size: 0.32"/8.20mm
-Length: 39.37inch/100cm

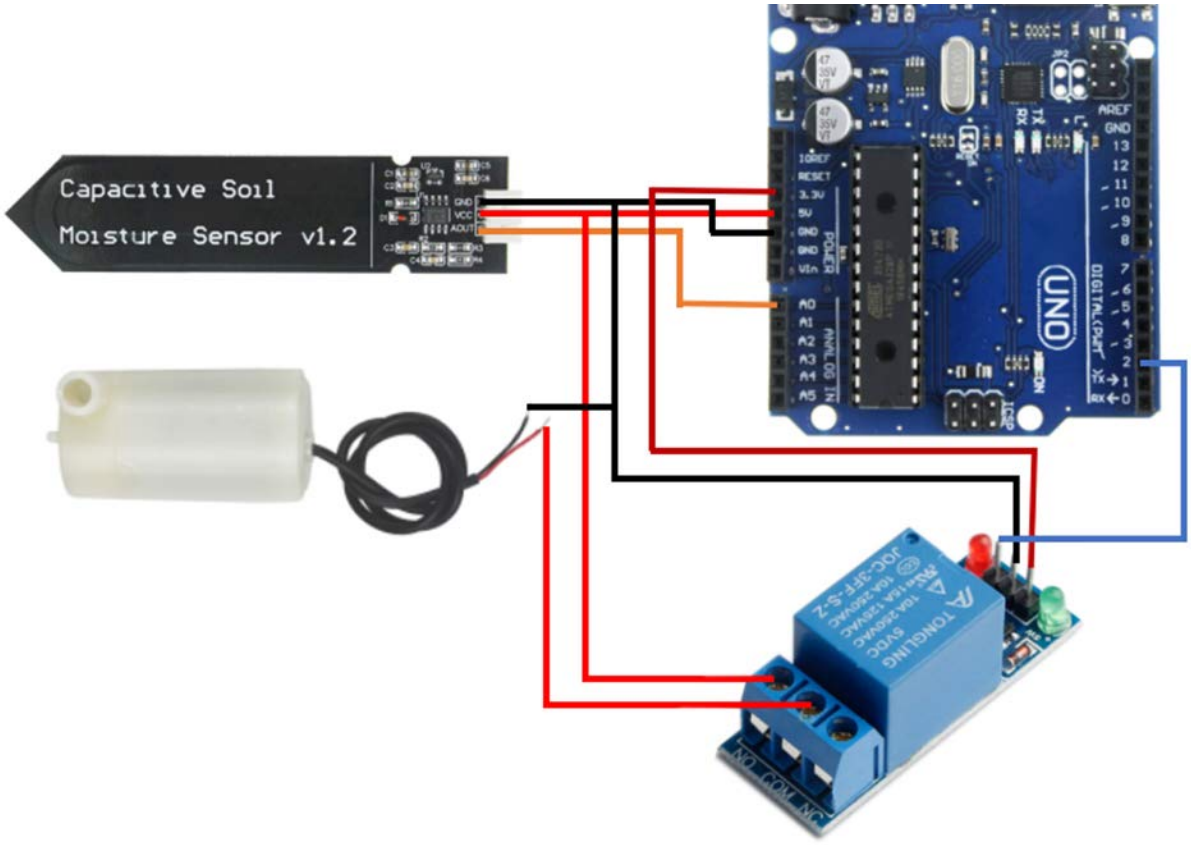
Package Included:
4 x Capacitive Soil Moisture Sensor
1 x 4 Channel 5V Relay Module
4 x Mini Water Pump
1 x 4M Vinyl Tubing



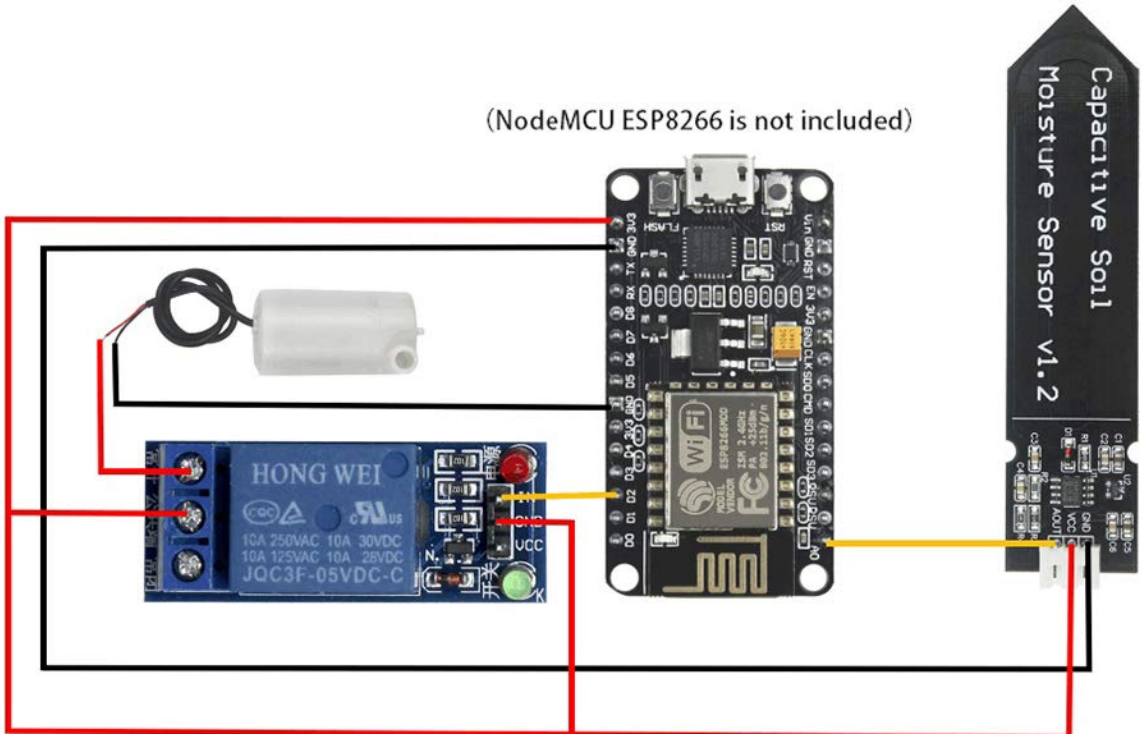
Model	Voltage Scope (DC)	Current(A)	Power(W)	Max Water Head(M)	Max Flow Rate(L/H)	Starting Voltage	Waterproofing Grade
JT-DC3V-3	3V	0.12	0.36	0.35	80	1	IP68

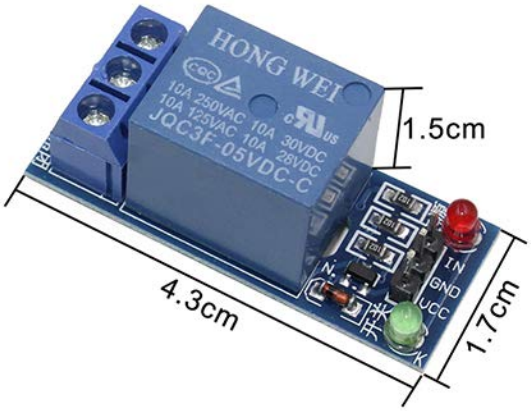
JT-DC3V-4.5	4.5V	0.18	0.91	0.55	100	1	IP68

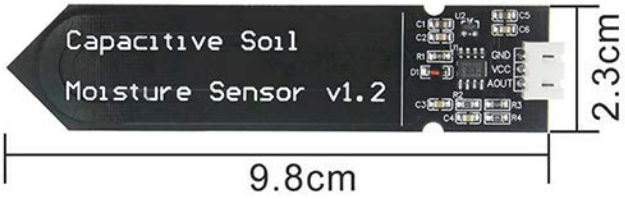
(Arduino UNO is not included)



(NodeMCU ESP8266 is not included)







Wifi for Arduino https://www.amazon.com/HiLetgo-Internet-Development-Wireless-Micropython/dp/B010O1G1ES/ref=psdc_537316_t2_B07R4MVSCY