

User Manual

To set up the automated domestic irrigation system, you will need to do the following:

1. Choose a location for the system that is near a water source as well as a power outlet and has easy access to your garden.
2. Install the control unit using the bracket included along with it in the following orientation.



Figure 1 Orientation of control unit

3. Attach the solenoid valve of the control unit to the main water supply hose as well as the outlet pipe.



Figure 2 Solenoid valve fixtures

4. Insert 4 AA Batteries in the battery case of the sensor unit.



Figure 3 AA Battery case of sensor unit

5. Place the sensor unit in your garden such that the sensor probe penetrates through a depth of at least $\frac{1}{2}$ inch.



Figure 4 Positioning of sensor unit

6. Provide a WIFI Connection with the following credentials for the system to communicate with the server and the web interface.

SSID: G

Password: 12345678

Band: 2.4GHz

7. Turn on the system by toggling the switches present in both the units.

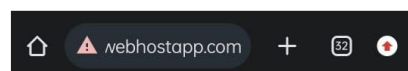


Figure 5 Control unit switch



Figure 6 Sensor unit switch

8. Monitor the real-time moisture level as well as intended water supply status using the web interface(<http://domestic-irrigation.000webhostapp.com/>)



A.D.I.S Interface

**Moisture Level: 71
Percentage**

Valve Status: OFF

Figure 7 Web Interface

9. Test the system to ensure that it is working properly and watering your garden as intended.

To self-diagnose and troubleshoot problems with the system, you can:

1. Check the control unit or other components of the system to ensure that the LED's present inside the system are functioning properly and that the system is receiving power.
2. Check the water source to ensure that it is working and providing enough water for the system to function properly.
3. Check the system's connections and hoses to ensure that there are no leaks or other issues that may be preventing the system from working properly.
4. If these troubleshooting steps do not resolve the issue, it may be a more serious problem with the system. In that case, it is recommended to contact the manufacturer or a professional for assistance.