

OVERVIEW

The **RainON** controller designed for automatic irrigation systems for home gardens, greenhouses and farms.

The controller measures plant available water by the **SMH-01** sensor. The controller switch on irrigation when plant available water is below the set limit. The controller monitors plant available water. The controller switch off irrigation as soon as plant available water reaches the set value.



CONTROLLER INSTALLATION

1. Install the **RainON** controller on place.
2. Install the **SMH-01** sensor into the soil at the specified depth. Compact the soil at this place.
3. Make the electrical connections (see Wiring Diagram).
4. Water the soil at the area to improve the contact of the sensor surface with the soil.
5. Switch on the power supply of the controller.

CONTROLLER SETUP

192.168.4.1

Green Sensors

RainON Controller

Parameter	Value
Available water, %	6
Status	On

Controller setup:

SystemID:

Controller_ID:

Sensor_ID:

Measurement interval, min:

Min:

Max:

Start hour:

Start minute:

Stop hour:

Stop minute:

WiFi setup:

SSID:

Password:

Connect to the Wi-Fi access point of the controller "**RainON***" (password: "**11111111**") using a smartphone, tablet or laptop. Then open the web page "**192.168.4.1**" using a browser.

The WEB page displays the measurement results: **Available water** is plant available water. **Status** is controller operation status. **On** – irrigation switch on. **Off** - irrigation switch off.

Controller setup.

The **System ID** and **Sensor ID** set by the manufacturer. If necessary, these parameters can be changed to connect the controller to the **GW-I200** or **GW-L200** monitoring device.

Measurement interval is measurement interval in minutes.

Min- the minimum value of available water when irrigation switch on. **Max** - the maximum value of available water when irrigation switch off.

Start_Hour and **Start_min** are the time when the executive device turned on. **Stop_Hour** and **Stop_min** are the time when the executive device turned off. These parameters are set when the controller to connect to the **GW-I200** or **GW-L200** monitoring device.

! Irrigation switched on at the set time only if the amount available moisture in the soil is insufficient.

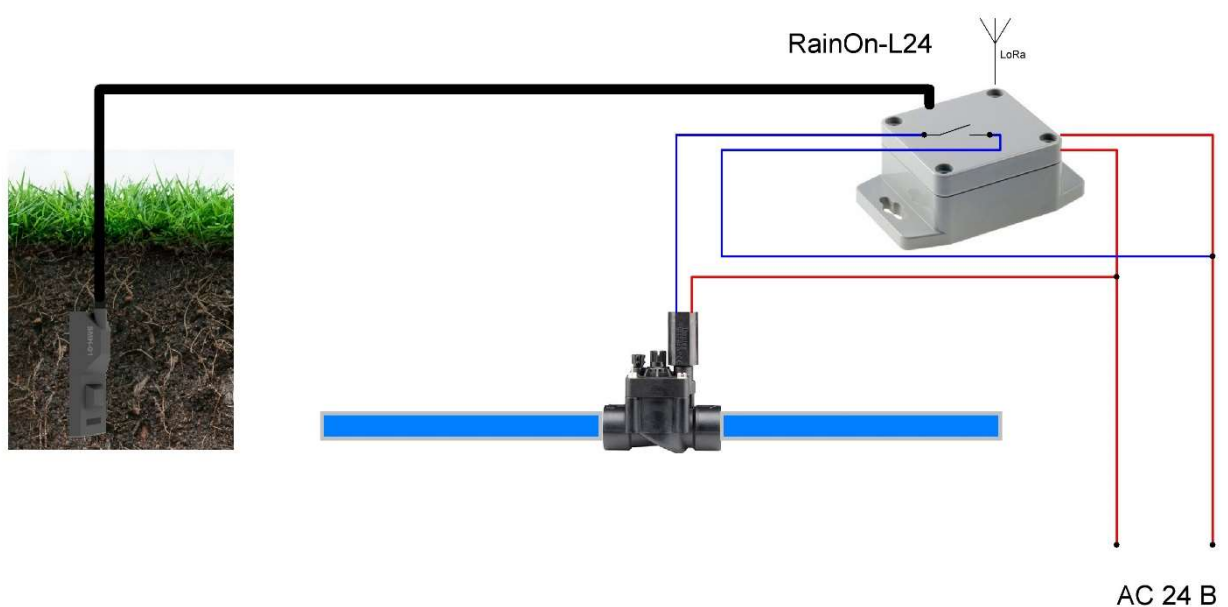
The **Wi-Fi** access point parameters of the controller **SSID** and **Password** set by the manufacturer. You can change these settings if necessary.

To save changes click the **Submit** button of the corresponding section.

CONTROLLER SPECIFICATIONS

Supply voltage:	DC 9-24V/ AC 24V
Switching voltage, max.:	250 V
Switching current, max.:	5 A
Switched power, max.:	300 W
Power consumption:	1.5W
Wi-Fi hotspot:	802.11b/g/n
LoRa Interface:	433MHz, 18dBm
Temperature Range:	-20 ÷ 60 °C
Controller case dimensions:	94x59x35 mm
Sensor case dimensions:	60x24x14 mm
Sensor cable length:	3 m

WIRING DIAGRAM



CONTROLLER CASE DIMENSIONS

