WIRELESS SOIL MOISTURE SENSOR — SMH-L24

OVERVIEW

The **SMH-L24** determines plant available water by the **SMH-01** sensor. The **SMH-L24** transmits the measurement data to the controller **CD-L24** and to the **GW-I200** monitoring device via LoRa wireless technology over a distanceup to 5 km.

The **SMH-L24** sensor designed for automatic irrigation systems of greenhouses, farms and agricultural enterprises.

SENSOR INSTALLATION

1. Install the **SMH-L24** housing 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. Turn on the power supply of the sensor.

SENSOR SETUP

To setup the sensor, connect to the Wi-Fi access point of the sensor "**SMH-L24**" (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 sensor operation status. **Ok** - everything is fine. **Error** –data transfer is not working.

Sensor setup.

The **System ID** and **Sensor ID** set by the manufacturer. If necessary, these parameters can changed to connect the sensor to the **CD-L24** controller.

Measurement interval is measurement interval in minutes.

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

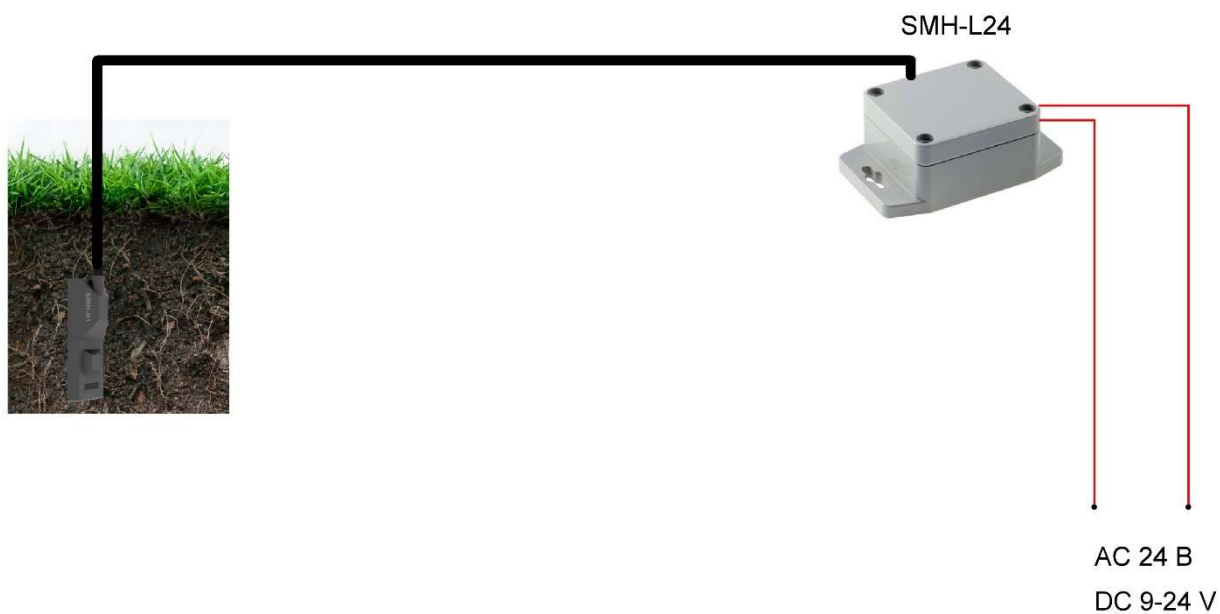To save changes click the **Submit** button of the section.

SENSOR SPECIFICATIONS

Operating voltage:	DC9-24V/AC24V
Power consumption:	1 W
Wi-Fi:	802.11b/g/n
LoRa:	433 MHz, 18 dBm
Temperature range:	-20 ÷ 60 ^{o}C
Case dimensions:	94x59x35 mm
Sensor dimensions:	60x24x14 мм
Cable length:	3 m

WIRING DIAGRAM

SMH-L24

AC 24 B
DC 9-24 V

CASE DIMENSIONS

94

79

52

R4.25

46

58.84

HOLES(2) ARE DESIGNED FOR M4 PAN
HEAD MACHINE SCREWS USE.

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