

WiFi Soil-Moisture Sensor V0.6 , User Manual



Figure 1 - Designation of sensor components (Sensor without enclosure)

1 Starting the sensor in working mode

- Toggle Power switch (1) to ON state and enjoy

2 Starting the sensor in setup mode

- Hold down the configuration button (3) and toggle Power switch (1) to ON state
- Connect to the new Wi-Fi network using the passphrase: “password”
- Go to the configuration page at <http://192.168.4.1> in browser
- Log in using the standard password “admin”
- Configure the connection to your home Wi-Fi network
- Configure the necessary notification methods
- Calibrate the sensor in the Options menu (Figure 2) or use default values
- Restart the humidity sensor by web-interface or by power switch (1).

3 Calibration

- Insert the sensor into dry soil and press the “Set as 0%” button
- Water the soil, wait few minutes, press “Set as 100%”
- Press the “Submit” button and reboot the device

The screenshot shows a web browser interface for configuring a sensor. The browser's address bar displays the URL '192.168.4.1/options'. The page features a horizontal navigation menu with buttons for 'User', 'WiFi', 'WiFi AP', 'Options' (which is highlighted in blue), 'URL', 'ThingSpeak', 'Telegram', 'MQTT', and 'System'. Below the navigation menu, the 'Options' section is visible. It includes a text input field for 'Device name' containing 'Liana 85-05' and a note 'i.e. Chamomile'. There is a 'Check every' field set to '10' minutes. The current 'Soil moisture' is displayed as '96 %'. Three buttons are present: 'Set as 0%', 'Set as 100%', and 'Default'. Below these, there are two more input fields: 'High treshold' set to '136' and 'Low treshold' set to '943'. At the bottom of the form is a 'Submit' button.

Figure 2 - Sensor Calibration menu

4 Recommended configuration options

The humidity sensor is designed to send data by several methods, such as: HTTP, MQTT, Telegram or ThingSpeak. Our recommendation – to use only one of them, to minimize the battery consumption.

Also, you can use web interface to configure the selected notification method.

5 Warranty and Technical Support

Warranty of the device is 12 months from the purchasing date

For the technical support questions, suggestions and improvements, please contact us: Email: info@ag-rf-engineering.de

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We wish you enjoy our product!

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