

DamoaTech DT-SMS01B Soil Sensor Installation Guide

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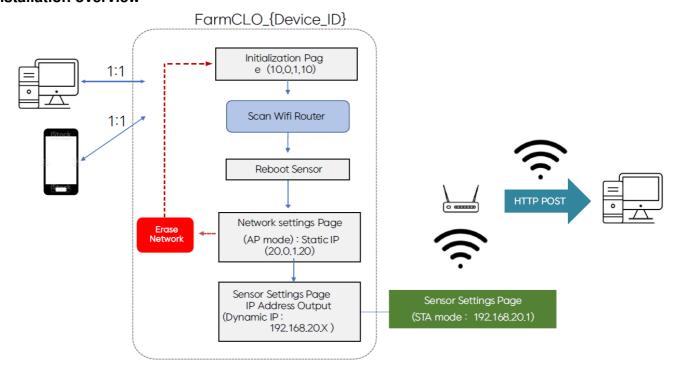
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DamoaTech

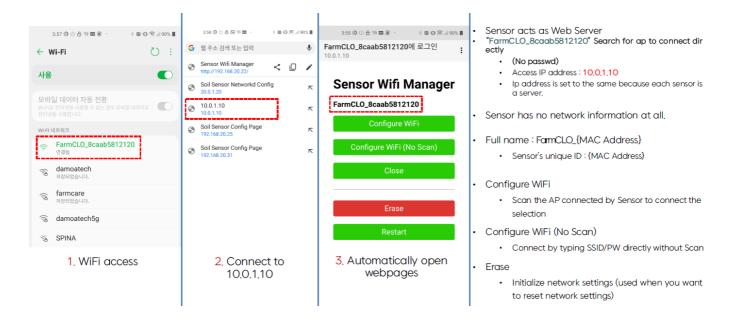
DamoaTech DT-SMS01B Soil Sensor

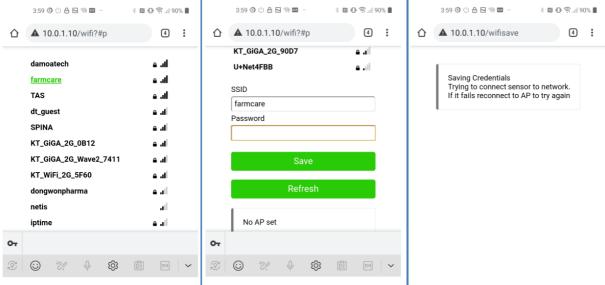


Installation overview



Initial settings

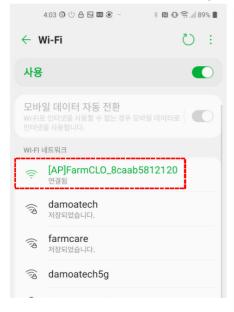




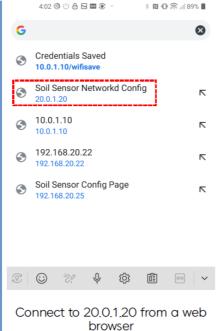
1. Select the SSID you want to connect

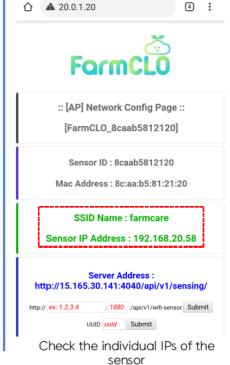
2. Password input

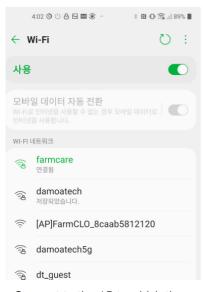
3. Save button press > Sensor reboot



"[AP]FarmCLO_8caab5812120" Search for ap to connect directly (No passwd)







Connect to the AP to which the sensor is connected

Restart the sensor.

Connect to your IP address with a

♠ 192.168.20.58

:: Sensor Config Page ::

[FarmCLO_8caab5812120] SSID Name : farmcare

ratue Offset(0 °C): -10 ~ 10 °C

Active Time (120 sec): 0~600 sec

Deep Sleep Time (20 min): 10 min ~ 18)

Reset Time

Notice: Make in an envionment where the sensor car

be calibrated.

web browser(192.168.20.xx)

4 :

Submit

Submit

Submit

- From the AP that belongs to the same network to t he Sensor, access to granted IP address.
- · SSID Name: Connected SSID
- Sensor Name : Sensor name = FarmCLO_{Sensor ID}
- Server Address: HTTP Port with server address to p ost, the default value is the Damoatech server add ress
- Measuring cycle: Sensor measurement cycles settin g (15 to 180 minutes)
- Temperature Offset (-10~10)
 - · When the temperature does not fit, set offset
 - After submitting from all settings, wait 12 seconds then refresh the page to complete the rest of the setup

Active time settings after all settings are finished Set to 0 to minimize battery consumption
Reset to reset time by setting the sensor to at

Sensor Calibration: Sensor Initialization

least 10 seconds for resetting

Must be removed from the Soil and then executed.

Network settings Page

Separate server users (DamoaTech Server users do not apply)



Sensor acts as Web Server

"[AP]FarmCLO_8caab5811254" Search for ap to connect directly (No passwd)

· Access IP address: 20.0.1.20

• Ip address is set to the same because all sensors are Server.

SSID Name: connected SSID

Sensor Name: Sensor name = FarmCLO_{Sensor ID}

Sensor ID: {MAC} without ":"

Server Address: Enter the server address and Port you want to connect to, and then click Submit

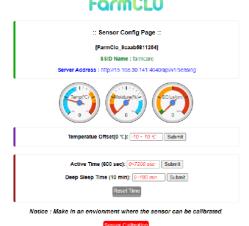
UUID: It is specified automatically. (Don't enter)

Erase Network: Delete network information (change to default to all network information)

Notice: Erase all network infomation.

Example

Sensor Settings Page



Restart the sensor.

Example

- Access to the IP address granted to Sensor from Devices on the sam e network
- SSID Name: connected SSID
- Sensor Name : Sensor name = FarmCLO_{Sensor ID}
- Server Address: HTTP SERVER ADDRESS TO POST
 - The default value is the Damoatech server address.
 - Measuring cycle: Sensor measurement cycles (15 to 180 minutes)
- Temperature Offset (-10~10)
 - When the temperature does not fit, set offset
 - Sensor Calibration: Sensor Initialization
 - Must be removed from the soil(do not touch pine) and executed.

Active time settings after all settings are finished When using the battery: Set to 0 to minimize consumption

Always-on power: Keep default

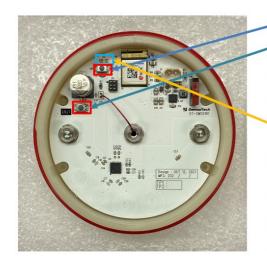
Server Sensor Registration

DamoTech Server Users Only

- To use the apps offered by DamoTech, you must register your product.
- The product buyer can inform us of the product warranty or the number affixed to the top.
- Email address: info@damoatech.com
- Please provide the buyer's name, address, email address and contact information.
- User IDs and passwords will be notified at we will inform you.



How to factory reset



- -1. Switch at 11 o'clock = Power Reset button
- 2. Switch at 9 o'clock = button for Factory Reset
- 3. Press and hold the 9 o'clock button and push and release the 11 o'clock button.
- 4. Release the 9-hour button when the blue LED is lit

If the above methods don't work,

- 1. Please try with a different network device. (Laptop or Android phone (LG or Samsung recommended) iPhone possible (time-consuming, xiaomi unavailable))
- 2. There should be no problem connecting 1:1 without internet.
- 3. Please try again to delete your current network information.
- 4. If you try the above and you are not connected, please send it to our headquarters.

Product Photos



Product Specifications

Spec	description	Remarks
Name	Soil sensor	
Model	DT-SMS01B	
Power voltage	DC 5V (USB)	
Power consumption	0.1W ~ 0.5W	
Size	80(L) x 120(H) x 80(W)	
Weight	120g	Battery, cable excluded
Network interface	WIFI 802.11b/g/n	
Frequency of use	2.4Ghz	
WIFI encryption	WEP/WPA/WPA2	
Moisture(VWC)	0% – 100%	
Soil temperature	-40 °C – 70°C	
EC	0 - 5000dS/m	
Material	Nylon66 + GF30, SUS304	
Warranty Period	1year	
Operating temperature range	-20°C – 70°C	
KC Authentication Number	R-R-dMt-DT-SMS01B	

Product Description

- 1. Use Volumetric Water Contents (VWC).
- 2. Represents the ratio of the total volume of the soil, including moisture, to the moisture volume
- 3. Moisture measurement methods are divided into FDR, TDR, and ADR methods. Reference Decagon YouTube-
 - 1. The FDR method is frequency analysis
 - 2. TDR method is time analysis
 - 3. ADR method is amplitude analysis
 - 4. The method used by DamoaTech uses a method of measuring dielectric permittivity like FDR.
- 4. The moisture value of the soil sensor represents the relative value, not the absolute moisture value of the soil.
- 5. The Rural Promotion Agency and the Agricultural Fractalization Foundation (FACT) are also conducting tests by measuring only the amount of change. Contact FACT
- 6. It means the amount of moisture in the soil.

Warranty

Product: DT- Series

Form: Agricultural instruments

Product Number :

Warranty Period: 1 year from the date of purchase Product Purchase Date :

Address:

Name:

Thank you very much for purchasing DamoaTech's products. This warranty promises to repair the products used as written in the warranty regulations and specifications, instruction manuals and precautions free of charge in the event of a failure within the warranty period.

Quality Regulations

- 1. If you are requesting a free repair, please provide a warranty. If the warranty period has elapsed, the actual cost will be settled.
- 2. Even within the warranty period, the following cases will be paid and settled for actual expenses in accordance with the company's service regulations.
- 3. If a foreign object is injected into the product and fails
 - 1. If the product is damaged or functionally damaged by dropping or impacting the product.
 - 2. Failure occurs due to applied voltage outside the voltage range
 - 3. You have not followed the precautions set out in the instruction manual.
 - 4. The customer randomly repairs, modifies, or disassembles the product and fails.
 - 5. When failure occurs due to natural disasters (lightning, fire, feng shui, earthquake, etc.)
 - 6. The part is obsolete and has caused a failure.
 - 7. Failure is caused by other negligence of the customer

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Documents / Resources

DamoaTech Soil Monitoring Sensor retatl releved Yd

<u>DamoaTech DT-SMS01B Soil Sensor</u> [pdf] Installation Guide DT-SMS01B, DTSMS01B, 2A3I8DT-SMS01B, 2A3I8DT-SMS01B, DT-SMS01B Soil Sensor, DT-SMS01B, Soil Sensor

Manuals+,