

Dropcity Host V4.2. User manual

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Introduction

Dropcity Host V4.2 is a universal LTE data-logging device that works with various sensors.

Device description

External input voltage range (Solar): 12-24V

External input power: ~6W

External peripheral interfaces: I2C, RS485

Number of I2C external connectors: 2

Number of RS485 external connectors: 2

Data transmission technology: LTE, GPRS, GPS

LTE-supported bands:

LTE-TDD: B34/B38/B39/B40/B41

LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/ B13/B18/B19/B20/B25/B26/B28/B66

Internal battery: Yes

Internal battery type: Li-Ion

Internal battery pack voltage: 3.7V

Internal battery pack capacity: ~9900mAh

Device power consumption (Transmission): ~3W

Device power consumption (Idle): ~0.37W

Device power consumption (Sleep): ~0.074W

User guide

Dropcity Host V4.2 is supplied with the pre-installed Li-ion battery pack. The device is supplied with factory firmware that requires activation.

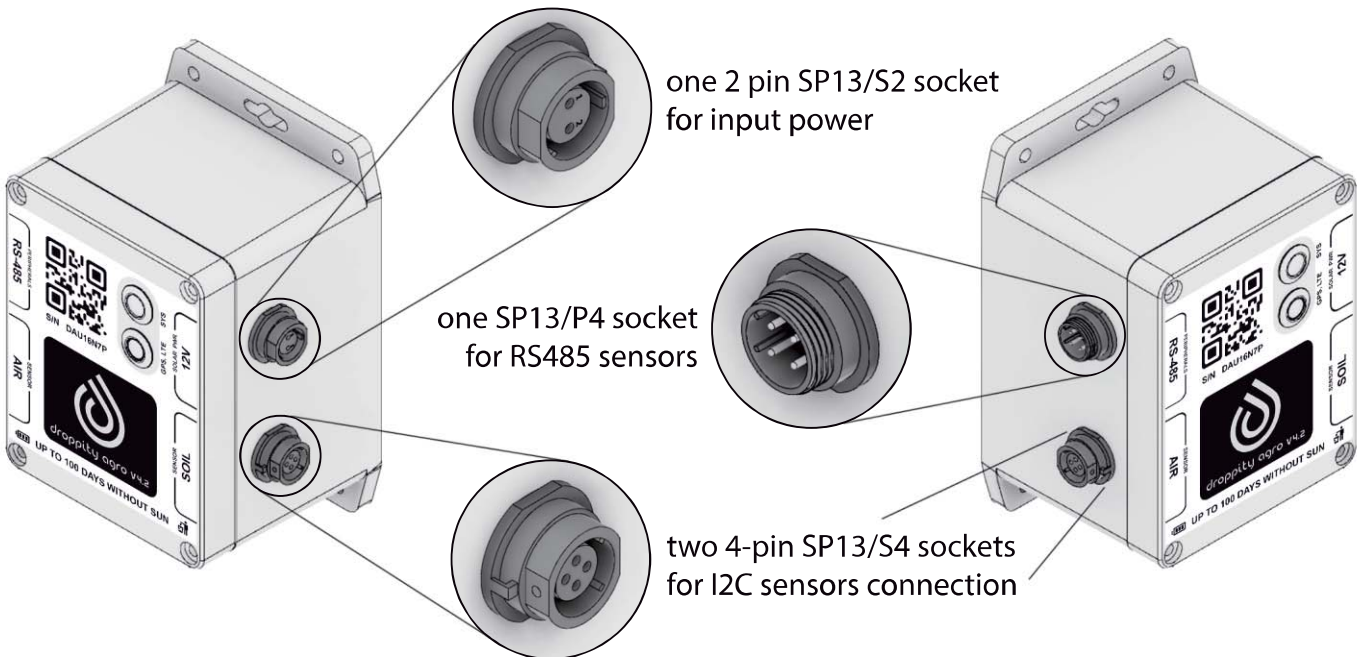


Peripherals connection

1 Unscrew the peripheral ports caps

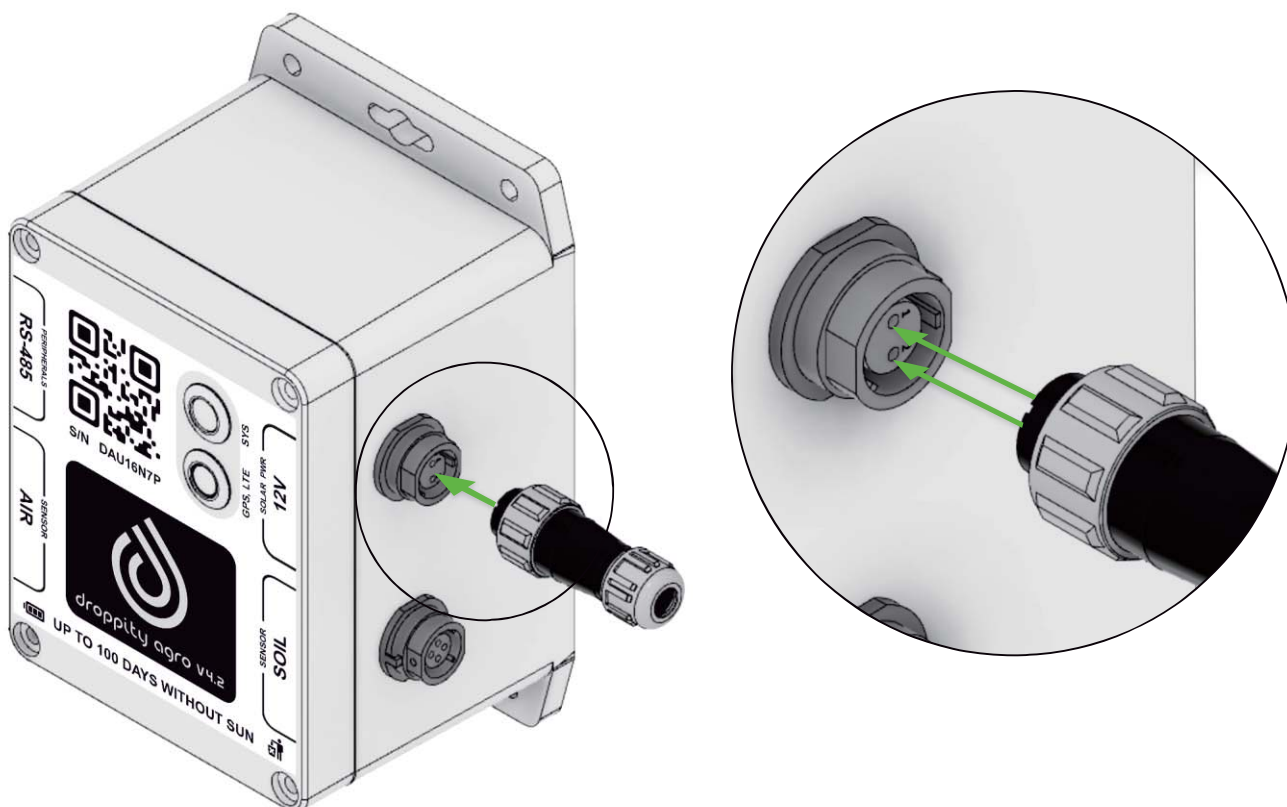


Types of interfaces

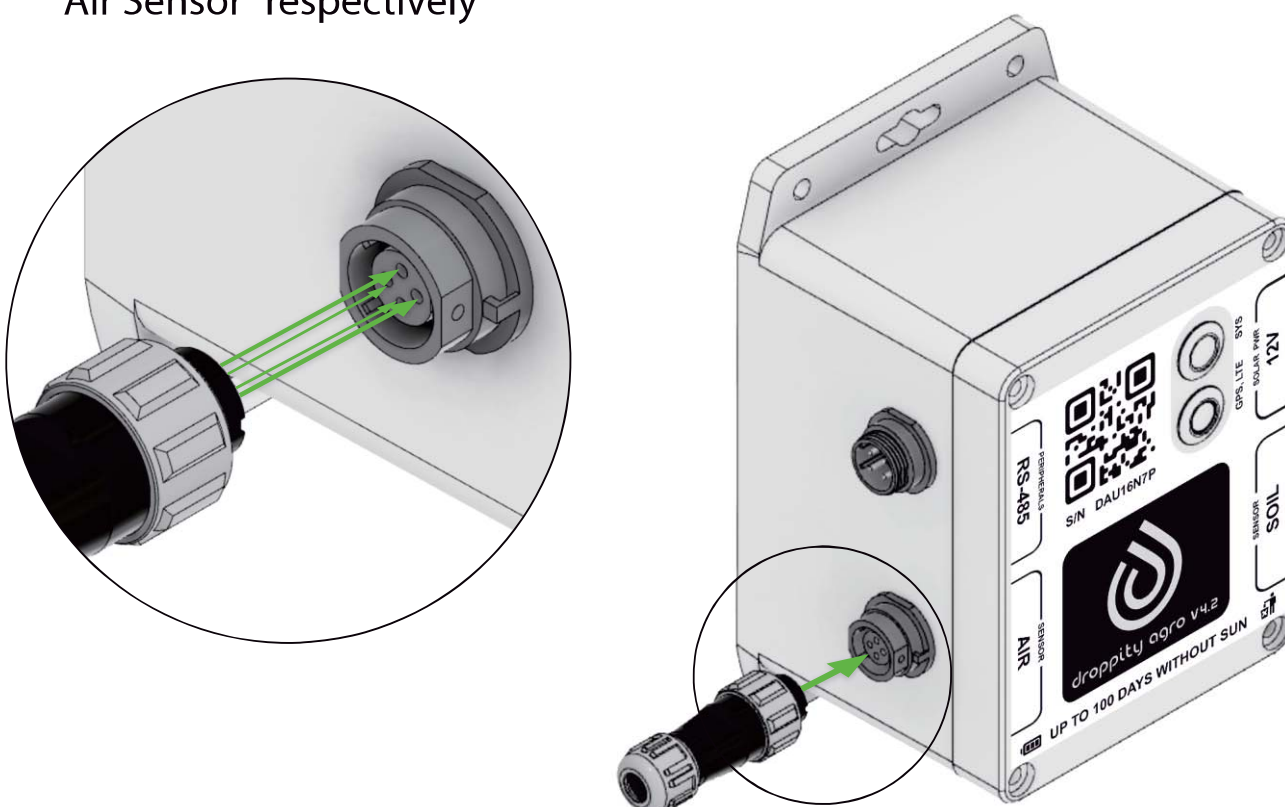


Peripherals connection

- 2** Connect external power plug to the 12V SOLAR PWR socket.

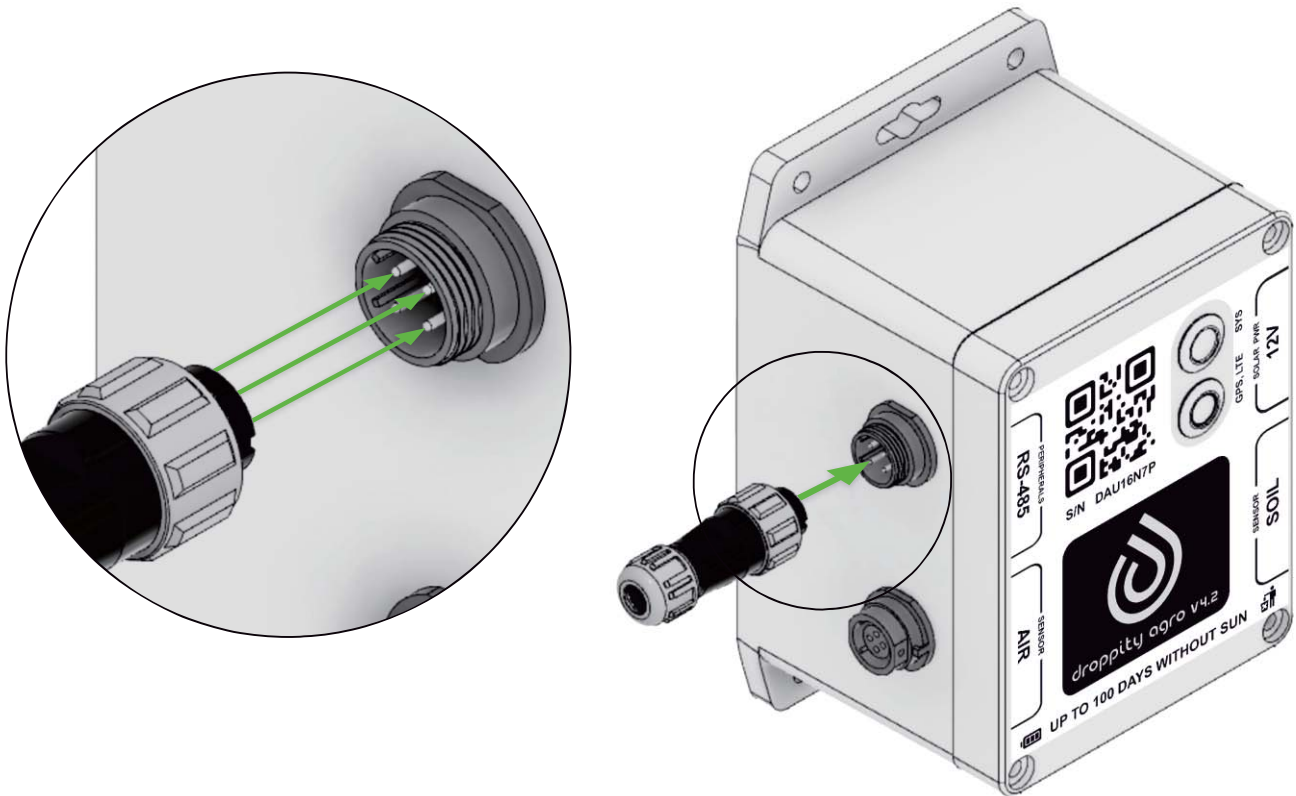


- 3** Connect I2C sensors to the device sockets called "Soil Sensor" and "Air Sensor" respectively

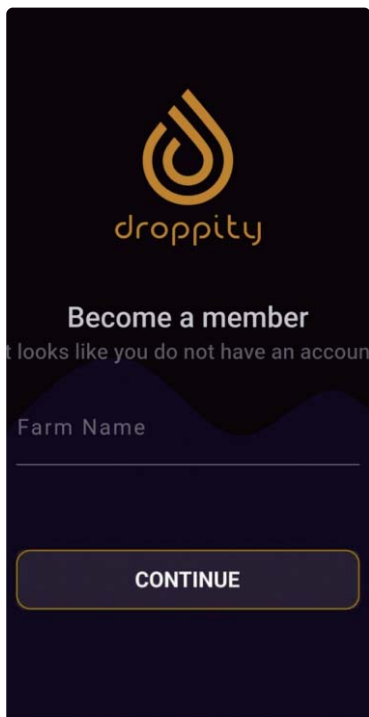


Peripherals connection

- 4 Connect your RS485 to the socket called "RS-485" (optional)



Device activation procedure

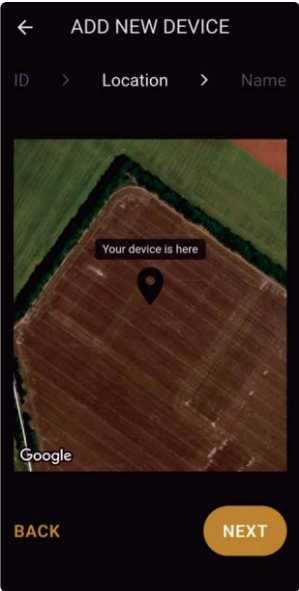


- 1 Start by scanning the QR code on the Droppity host with your smartphone;
- 2 If you don't have the Droppity app installed, you'll be redirected to Play Market (for Android) or App Store (for iOS) install page;
- 3 Install and open the Droppity app;
- 4 Log in with Google or AppleID (only available on iOS devices);
- 5 If you don't have an existing Droppity account, you'll be asked to set up one by entering Company name.

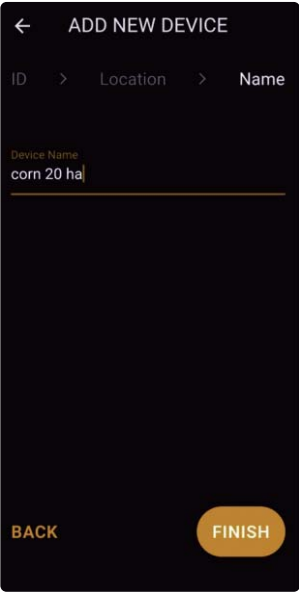
Device activation procedure



6 After entering the company name, you'll be redirected to the device onboarding flow with the device ID pre-filled. If you don't see the screen below, try scanning the QR code again or entering device ID manually (contact Droppity support for extra assistance).

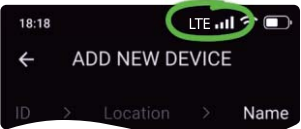


7 Allow access to the phone location for a clearer definition of the device's location. Adjust the device's location on the map.



8 Enter the device name (e.g. "corn 20 ha").

Device activation procedure



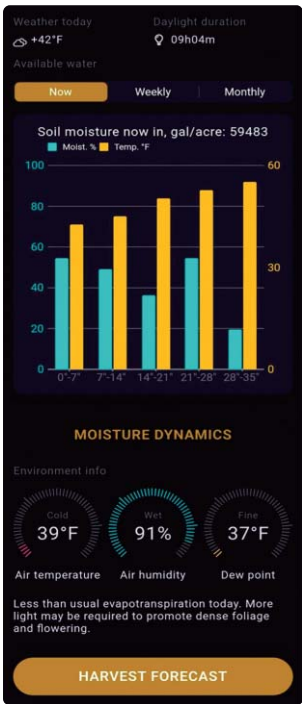
9 Make sure the device is situated in a place with good LTE network coverage

10 Press the GSM/LTE button once. You should see the led on the button starts blinking.



11 The device will start the OTA update. This process may take from 3 to 5 minutes.

12 Device is now added and you should be able to check measurement indicators.



FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.