

# USER MANUAL for LADYBIRD <P, L, T, R>



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For more information please contact info@terraprimagroup.co.uk.

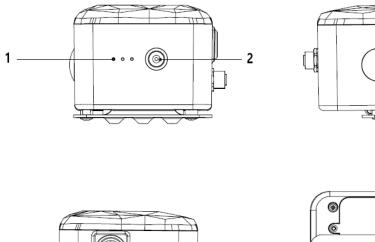
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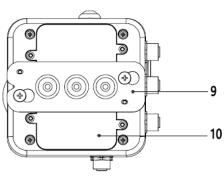
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## 1. Parts and Controls





- 1. On/Off Push Button
- 2. LEDs (3)
- 3. Light Intensity Sensor
- 4. Air Relative Humidity and Air Temperature Sensor
- 5. M12 Connector for Automation
- 6. M12 Connector for Water Level Transmitter
- 7. M12 Connector for Soil Probe
- 8. M12 Connector for Programming, Debug and Power.
- 9. Wall Mounting Plate
- 10. Battery Cover

#### The following Ladybirds Accessories are sold separately:

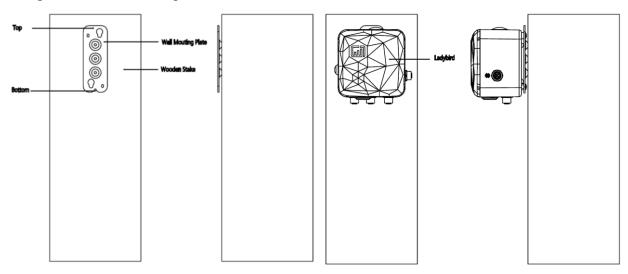
- Pole Mounting Plate
- Soil Moisture and Temperature Probe
- Soil Probe cable with M12 5-pin Male-Female
- Water Level Transmitter (includes cable and M12 3-pin Male connector)
- Automation hook-up cable with M12 2-pin M connector



## 2. Device Installation

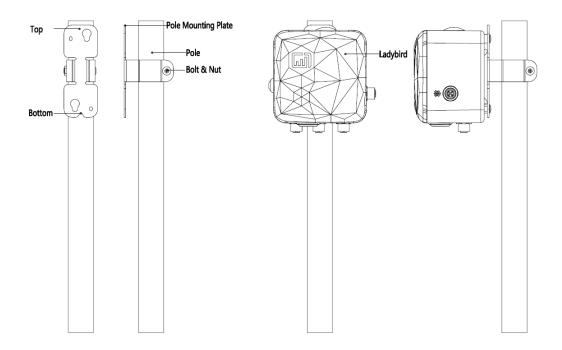
## 1. Wall Mount plate

Fix the plate with three M3 screws on the wall (or any other appropriate pole or surface) and hang the device onto the plate as shown.



## 2. Pole Mounting Plate

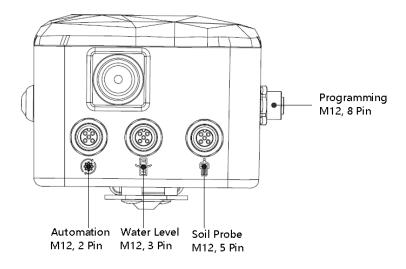
Install the Pole Mounting Plate onto the pole and secure it using the included bolt and screw nut and then hang the device on the plate.





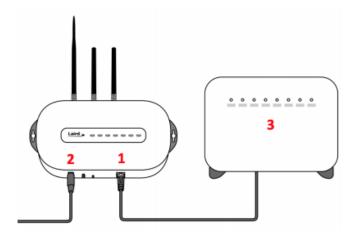
## 3. Accessories Installation

- 1. Unscrew the connectors' protection caps
- 2. Insert the accessories' male connectors into the ladybird female connectors and secure the locking thread



# 4. Gateway installation

- 1. Follow the label on the gateway enclosure to connect the 3 antennas
- 2. Connect the power supply (2)
- 3. Connect the gateway to the router (3) using the included Ethernet cable (1).
- 4. Contact us at info@terraprimagroup.co.uk if you wish to use WiFi instead.





# 5. Power on the Ladybird

- 1. Press down the push button to turn on the device.
- 2. The first 2 LEDs will become "Green", signalling that the power and internal sensors self-test has been succesfull
- 3. Wait for the third LED to become green. The ladybird is now installed and the wireless link has been established succesfully.

# 6. Dashboard Setup

- Log into dashboard
   http://dashboard.terraprimagroup.co.uk
- 2. Type username and password
- 3. Follow the instructions for setup and registrations

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# 7. Electromagnetic Interference Warnings

This device complies with Part 15 of the FCC Rules, Radio Equipment Directive.

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.

#### **FCC CAUTION**

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

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment complies with FCC/RED radiation exposure limits set forth for an uncontrolled environment and meets the FCC/RED radio frequency (RF) Exposure Guidelines.

This equipment should be installed and operated keeping the radiator at least 20 cm or more away from person's body.

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#### 8. Care and Maintenance

- Keep clean the light sensor cover and avoid light obstructions for accurate light readings
- 2. To replace the batteries:
  - Remove the four screws to take the battery cover off
  - Replace the 6 AA batteries
  - Install back the battery cover and tighten the four screws.

#### Note:

There is no need to tighten the screws too much.

Make sure that the O-ring is in place to ensure waterproof.

FCC ID: 2AVA5LADYBIRDX







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