



IRRIGATION AUTOMATION



**AWS**

[Advance Weather Station]

Field Installation Document



## Technical Specification

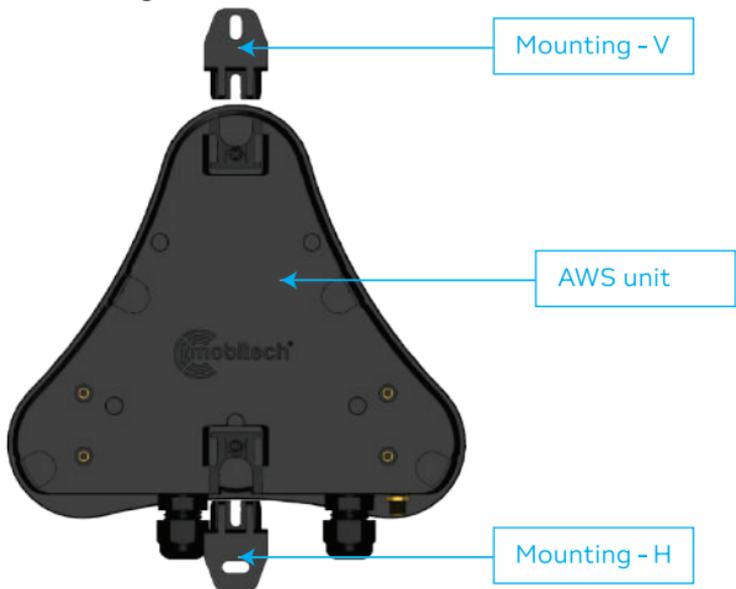
Product Name	: AWS (Advance Weather Station)
Solar Panel	: 12V/13W
Battery	: 7.4 V / 2600 mAh
Backup Time	: 72 Hours
Communication	: LORA and Bluetooth 5.0
GPS	: Inbuilt
Sensors	: Wind Speed (Anemometer), Wind Direction, Rain Gauge, Air Pressure, UV Index, Light Index, Temperature and Humidity.

## ASSEMBLY PROCEDURE

### Mounting Assembly

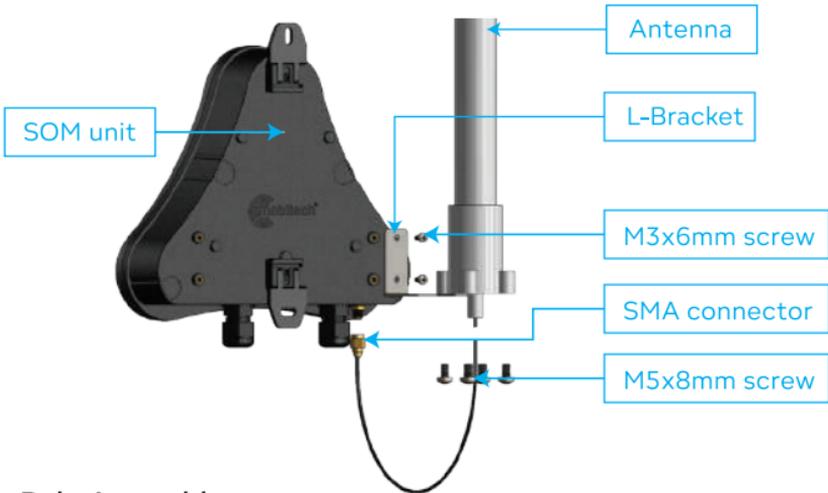
Place V slot mounting at top side.

Place H slot mounting at bottom side.



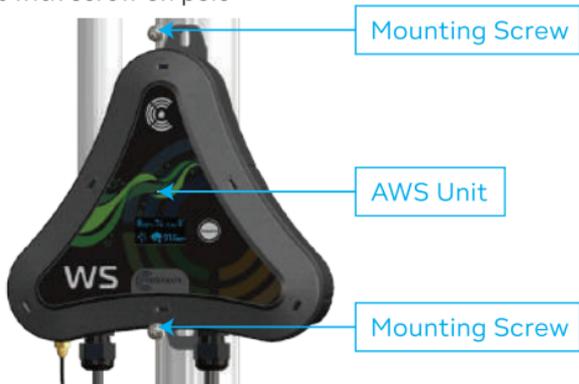
## Antenna Assembly

- Place the L-bracket for antenna mounting and screw with M3x6mm screw.
- Place the antenna on the mounting plate with M5x8mm screw.
- Connect antenna connector to SMA connector in AWS unit.



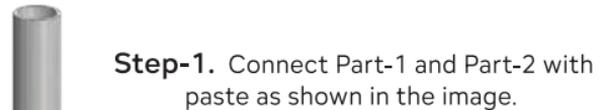
## Pole Assembly

- Mount AWS unit with screw on pole

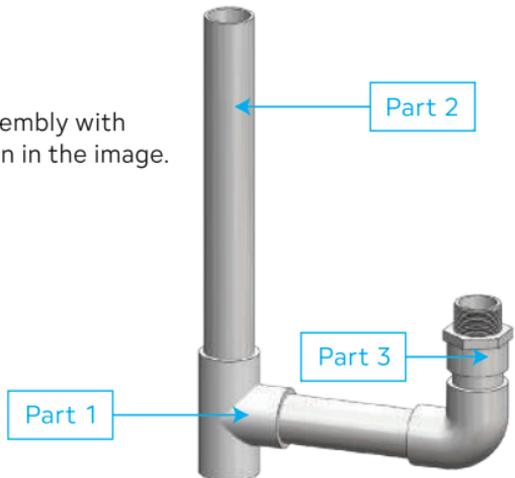


## Weather station and solar panel pole assembly

- Prepare mounting assembly before mounting on base pole.
- Inside the packing found three parts for mounting weather station and solar panel.



**Step-2.** Connect first assembly with next part-3 with paste as shown in the image.





Part 1



Part 2



Part 3

- Mount previous assembly on the Base Pole as shown in the image-1.
- Mount Weather station on top of the assembly as shown in the image-2.
- Mount solar panel as shown in the image-3.



Image-1



Image-2



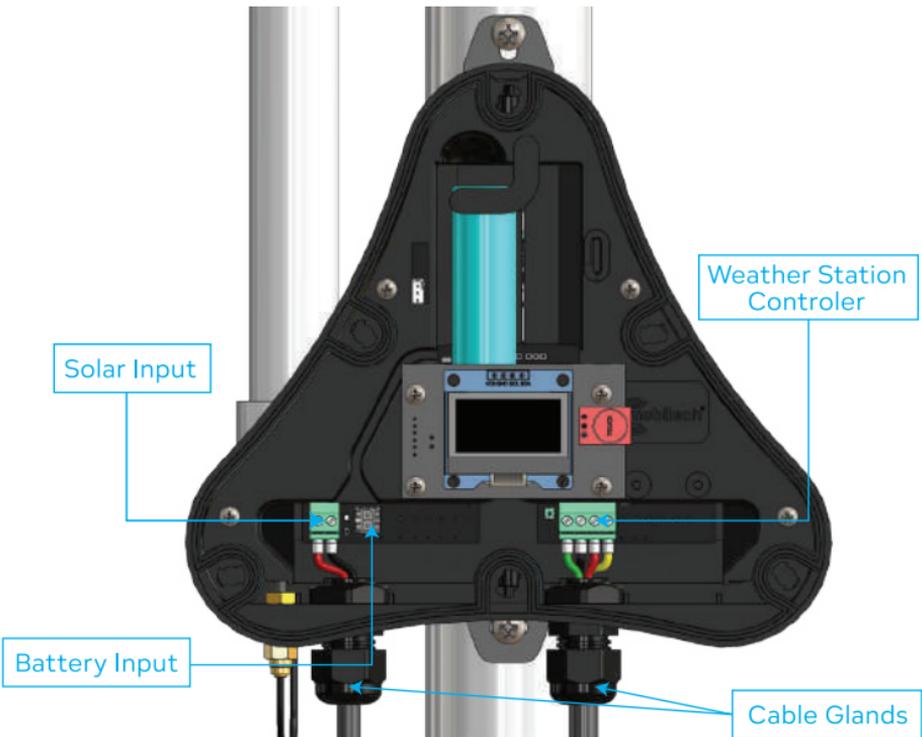
Image-3

Full Assembly

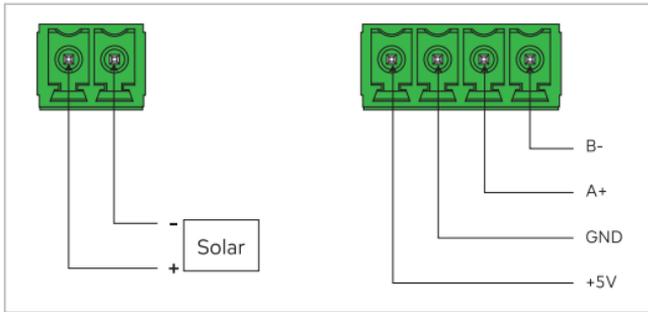


## Wiring Drawing

- Open top cover.
- Open cable gland 1, insert solar cable in to cable gland 1 and connect cable as shown in wiring diagram.
- Open cable gland 2, insert weather station cable in to cable gland 2 and connect cable as shown in wiring diagram.
- Connect Battery connector as shown in picture.
- Check all connections and ensure tight of cable gland before closing top cover.

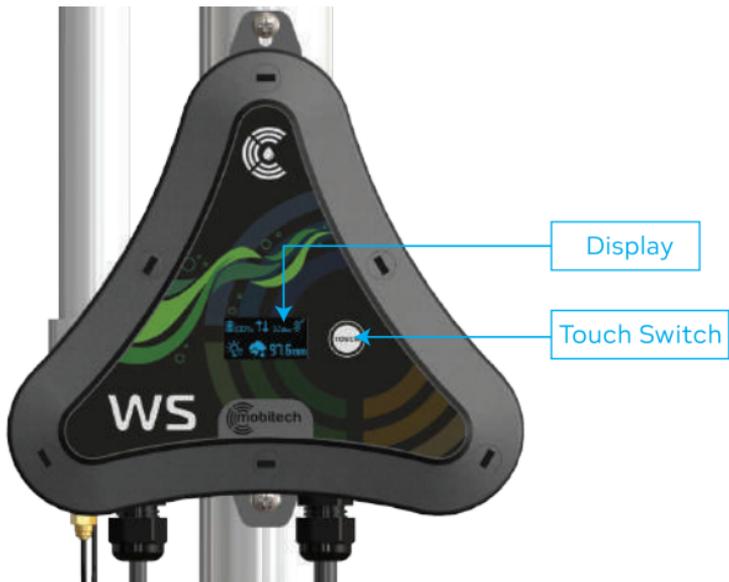


## Connector Detail

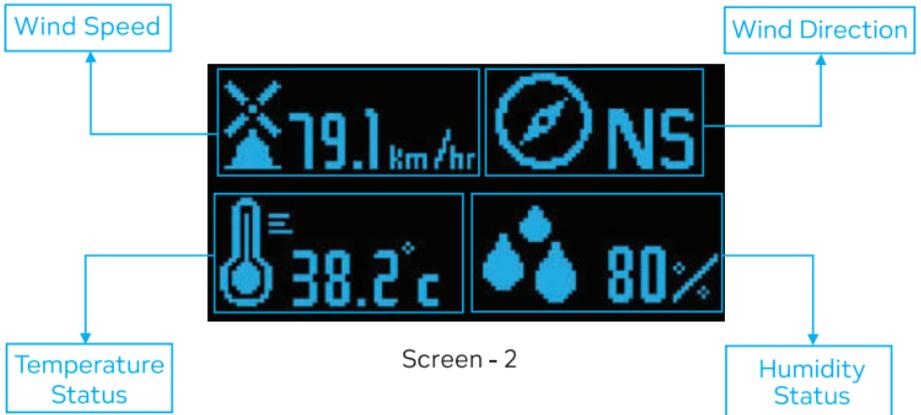
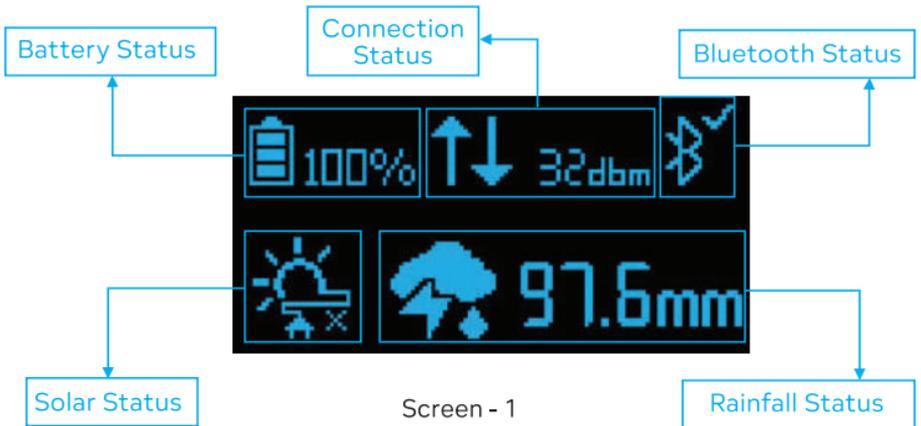


## Configuration

- After finishing wiring, touch the touch switch, it will wake-up display.
- Long touch (3sec) to connect Bluetooth for configuration.



Display Screens



### Battery Status



- It shows Internal Battery Percentage

### Connectivity



- It shows Connectivity Strength

### Bluetooth Status



- Bluetooth Disconnected



- Bluetooth Stand-by (Blink)



- Bluetooth Connected

### Solar Status



- Solar Not Connected



- Solar Connected (Blink)

### Rain Level



It shows level of rainfall.

### Wind Level



- It shows speed of wind.

### Wind Direction



It shows direction of the wind.

### Temperature



- It shows temperature value of the surroundings.

### Humidity



- It shows water content present in the surrounding.