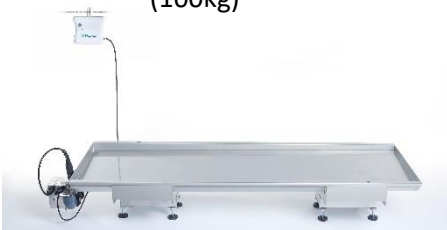


# DrainVision

Technical document for:  
**DrainVision Floor-Scale**

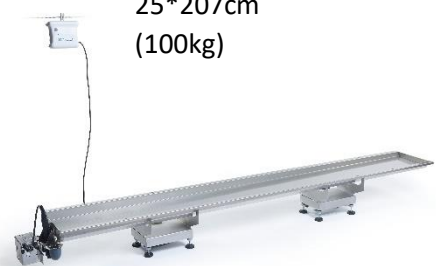
Floor-Scale  
135\*45cm  
(100kg)



Floor-Scale  
50\*45cm  
(50kg)



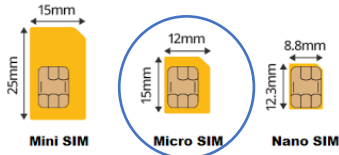
Floor-Scale  
25\*207cm  
(100kg)



February, 2019

## 1. Required preparation prior to installation:

Micro SIM card  
(1 Giga bite per month)



Pole to hang the base station (2m above the roof of the greenhouse)



Base station connection cable & Configuration software



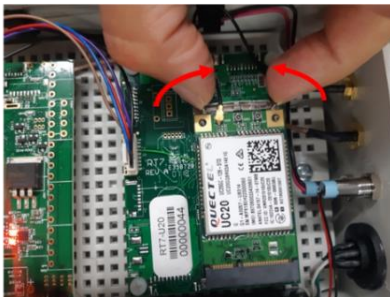
## 2. Installation of the electric base station:



PR-00007/PR-00008. DrainVision Electric base station 110 - 240 Volt  
50-60 Hz with EU or US plug.

### 2.1 Insert the SIM card:

Press on the two small pads



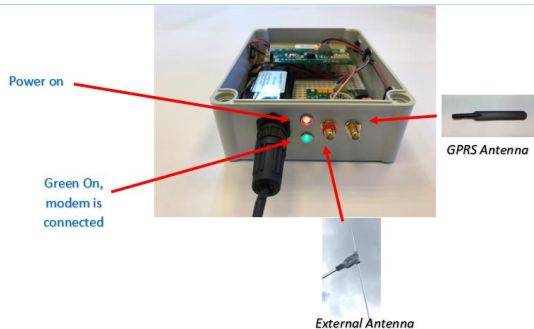
The SIM board lift's up



Insert the SIM card



### 2.2 Connect the base station to modem:



### 2.3 Hanging the base station:

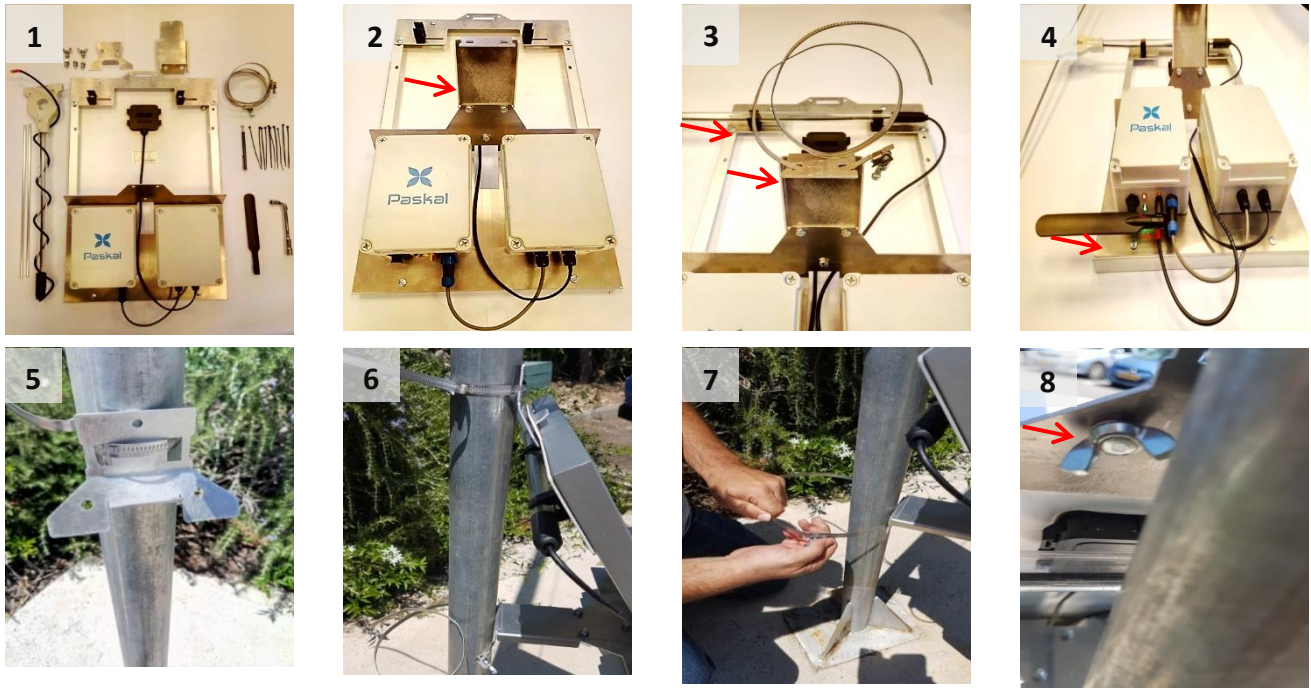


\*During this stage, if the base station is not connected to the modem, then the Base station connection cable and the technician software are required.

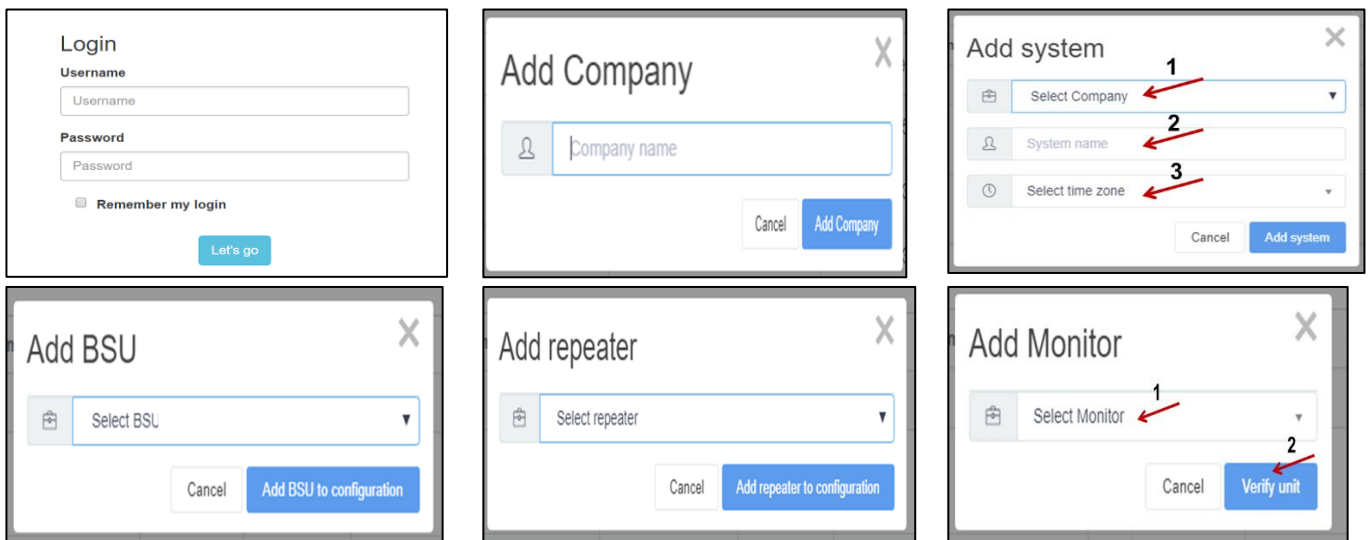
## 3. Installation of the solar powered base Station



PR-00006. DrainVision Base station solar powered.

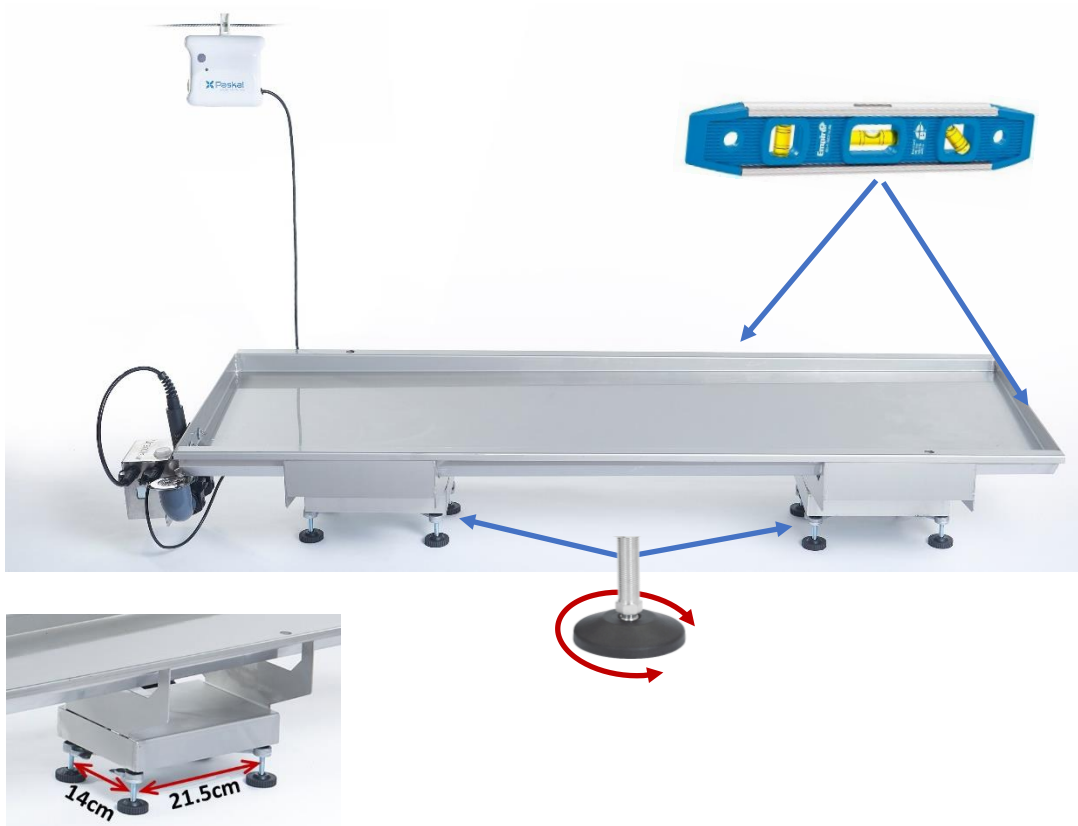


## 4. Operating the system - <https://www.paskal-drainvision.com/#/System>

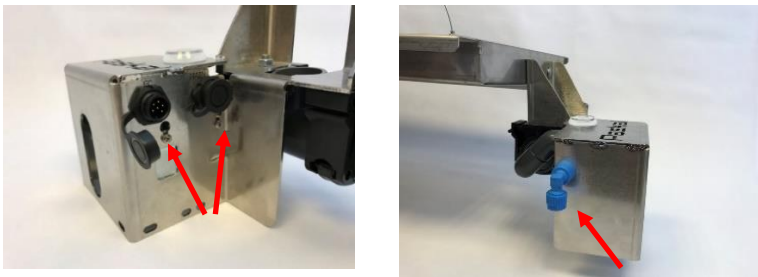


✓ "MONITOR ADDED"

## 5. Installation of the DrainVision Floor-Scale system:



### 5.1 connect the cables to manifold, connect the dripper



### 5.2 Verify system operation:

- 1 Click the spoons in the manifold.
- 2 Use the magnet stick to verify proper operation with the radio status: <https://radiostatus.azurewebsites.net/>

## 6. Setting new DrainVision account: <https://www.paskal-drainvision.com/#/System>

## On YouTube:

1. Create a user account: [https://youtu.be/Gq-1K\\_BRwPY](https://youtu.be/Gq-1K_BRwPY)
2. Configure the system <https://youtu.be/8dBz3TwHGM8>

## Technical specifications:

**Distances:** Max. distance between monitor and base station ~350m. When the distance is longer repeater can implement as a bridge and increase the distance for ~1000m.

**Data collection:** The data are collected every 5 minutes and transferred to the cloud every 10 minutes.

**Battery:** The battery of the monitor is located in the Monitor Transmitter / Scale. Under normal conditions the power pack can last for ~4 years. When the powerpack is at the end of its lifetime it can be easily replaced.

### Base station Technical specifications:

Humidity Operating	5% to 95%
Temperature Operating	-20°C to +60°C
Storage range of temp	-25°C to +75°C
Internal power source	Rechargeable Li-Ion battery 3.7v / 5.2Ah.
External power supply	110 - 240 Volt

### Monitor Technical specifications:

Frequency range	166-176 MHz
Humidity	5% to 95%
Temperature Operating	-20°C to +60°C
Storage	-25°C to +75°C
Internal power source	Lithium battery 3.6v / 8Ah

### Weight-scale Technical specifications:

Weight range	50kg
Min. accuracy	3 gr
Max. tolerance	35gr (0.1%) (In a temperature range of up to 30 degrees)

**Please fill free to contact us:**

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# DrainVision

Technical document for:  
**DrainVision Hanging-Scale**

Hanging-Scale  
110cm



Hanging-Scale  
140cm



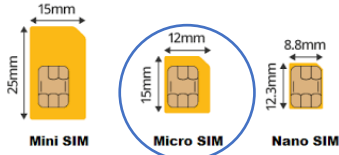
Hanging-Scale  
Twin 207cm



February, 2019

## 1. Required preparation before the installation:

Micro SIM card  
(1 Giga bite per month)



Pole to hang the base station (2m above the roof of the greenhouse)



Metal construction to hang the monitor



Base station connection cable & Configuration software



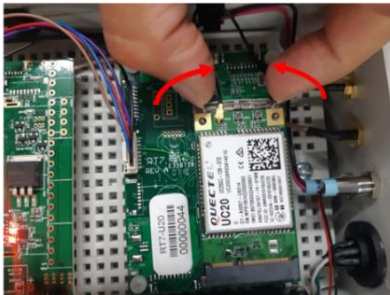
## 2. Installation of the electric base station:



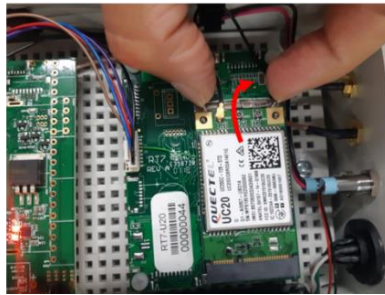
PR-00007/PR-00008. DrainVision Electric base station 110 - 240 Volt 50-60 Hz with EU or US plug.

### 2.1 Insert the SIM card:

Press on the two small pads



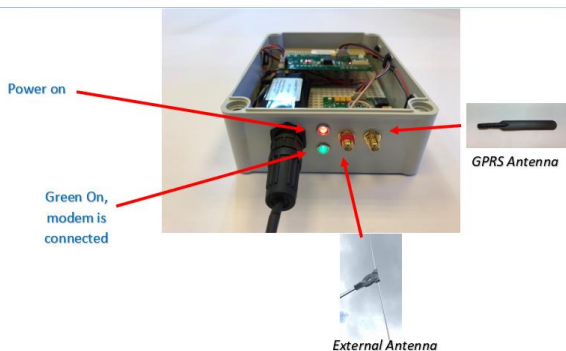
The SIM board lift's up



Insert the SIM card



### 2.2 Connect the base station to modem:



### 2.3 Hanging the base station:

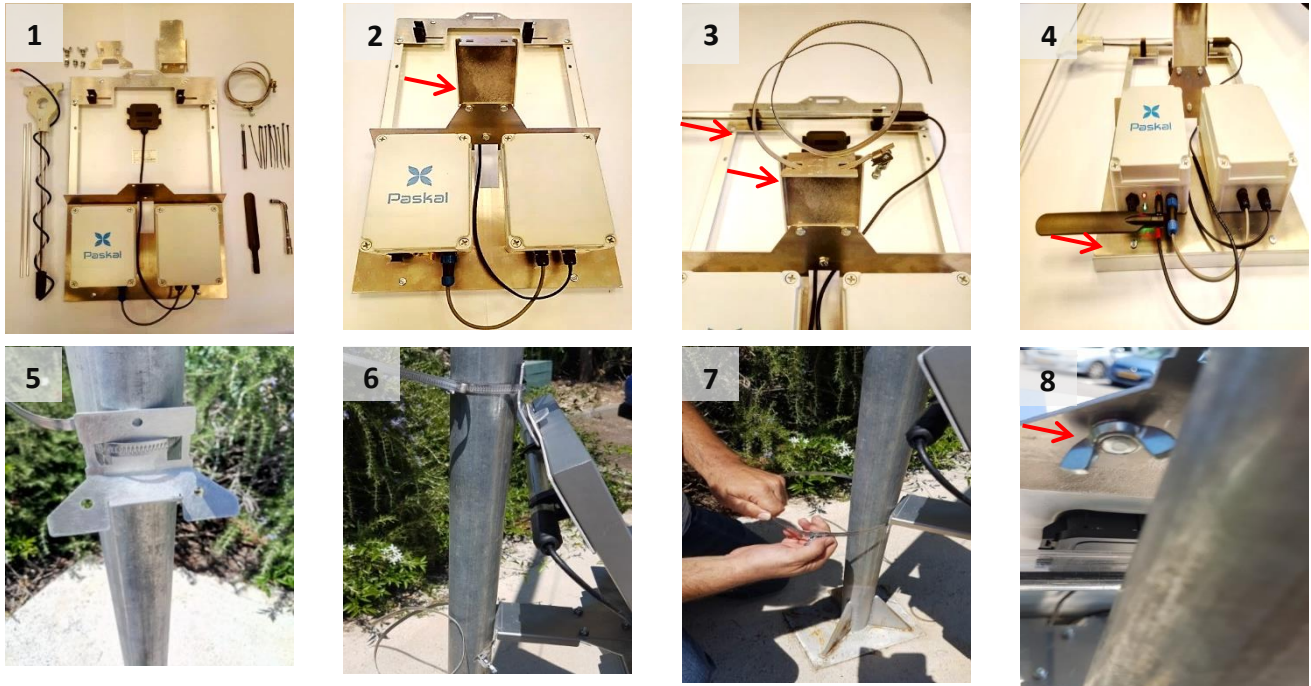


\*During this stage, if the base station is not connected to the modem, then the Base station connection cable and the technician software are required.

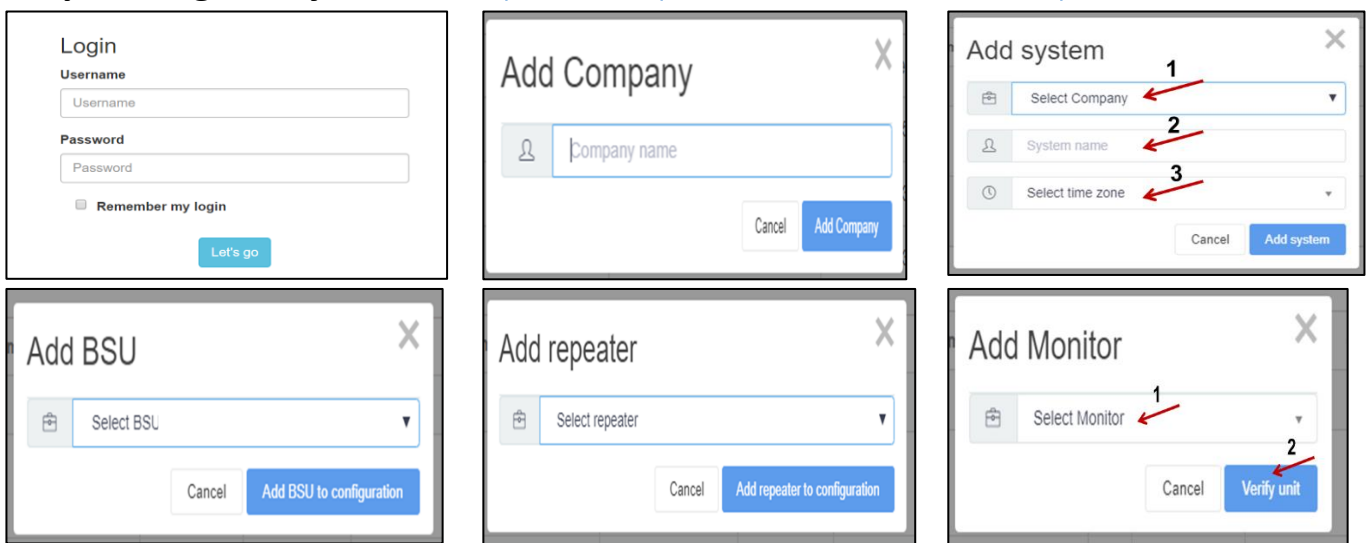
## 3. Installation of the solar powered base Station



PR-00006. DrainVision Base station solar powered.

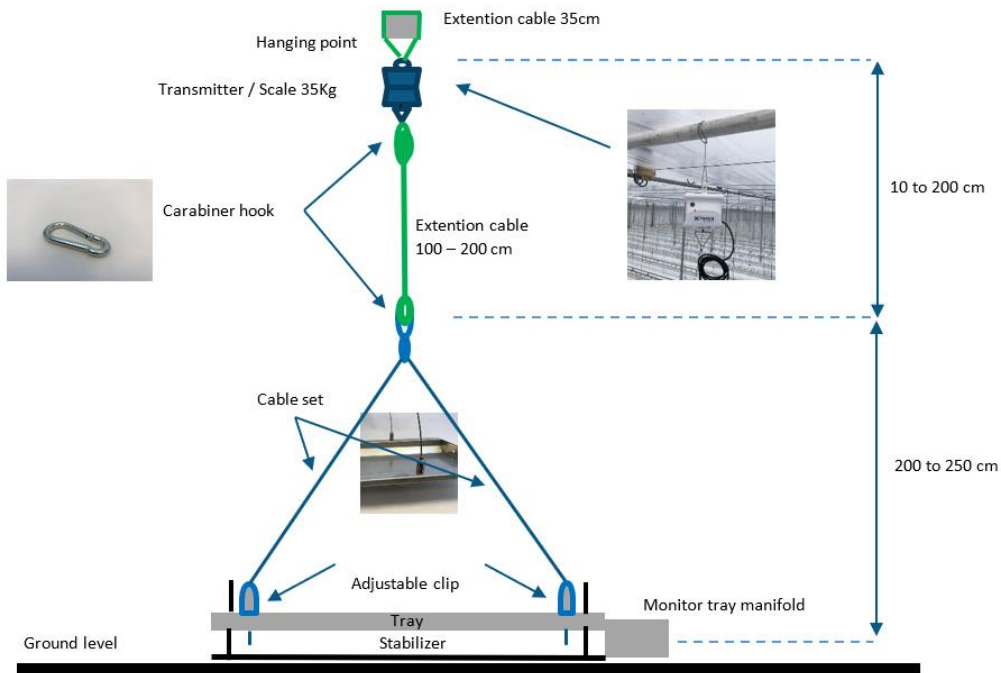


## 4. Operating the system - <https://www.paskal-drainvision.com/#/System>

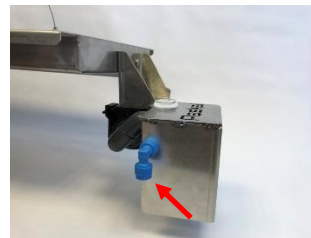


 "MONITOR ADDED"

## 5. Installation of the DrainVision Hanging-Scale in the greenhouse:



### 5.1 Install the transmitter/scale, connect the cables to manifold, connect the dripper



### 5.2 Verify system operation: Click the spoons in the manifold and verify proper operation by using radio:

<https://radiostatus.azurewebsites.net/>

## 6. Setting a new DrainVision account: <https://www.paskal-drainvision.com/#/System>

User settings

User name: Demo user      Role: Master user

Email: Demo@mail.com

Language: English

Timezone: International

Units: Liter

[Change Password](#)     

Monitor configuration.(Monitor ID 7300991)      DrainVision Floor-Scale

Monitor name: DrainVision floor scale

Drippers per tray: 8

Plants per tray: 4

Plants Per m<sup>2</sup>: 1

Display by factor: Per tray

**On YouTube:**

1. Create a user account: [https://youtu.be/Gq-1K\\_BRwPY](https://youtu.be/Gq-1K_BRwPY)
2. Configure the system <https://youtu.be/8dBz3TwHGM8>

**Technical specifications:**

**Distances:** Max. distance between monitor and base station ~350m. When the distance is longer repeater can implement as a bridge and increase the distance for ~1000m.

**Data collection:** The data are collected every 5 minutes and transferred to the cloud every 10 minutes.

**Battery:** The battery of the monitor is located in the Monitor Transmitter / Scale. Under normal conditions the power pack can last for ~4 years. When the powerpack is at the end of its lifetime it can be easily replaced.

**Base station Technical specifications:**

Humidity Operating	5% to 95%
Temperature Operating	-20°C to +60°C
Storage range of temp	-25°C to +75°C
Internal power source	Rechargeable Li-Ion battery 3.7v / 5.2Ah.
External power supply	110 - 240 Volt

**Monitor Technical specifications:**

Frequency range	166-176 MHz
Humidity	5% to 95%
Temperature Operating	-20°C to +60°C
Storage	-25°C to +75°C
Internal power source	Lithium battery 3.6v / 8Ah
Maximum load cell capacity	35kg
Maximum load resistance	55 kg
Accuracy	0.1% of full scale 10-40°C
Resolution	1 gr

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