

# LoRAIN & LoRATH



LoRAIN and LoRATH are a new generation of weather stations that operate on LoRaWAN or NBloT network. They can be connected to any existing LoRaWAN or NBloT network, if present at your location. LoRAIN and LoRATH measure rainfall, air temperature, relative humidity and soil moisture. All the data is synchronized with FieldClimate.



LoRAIN

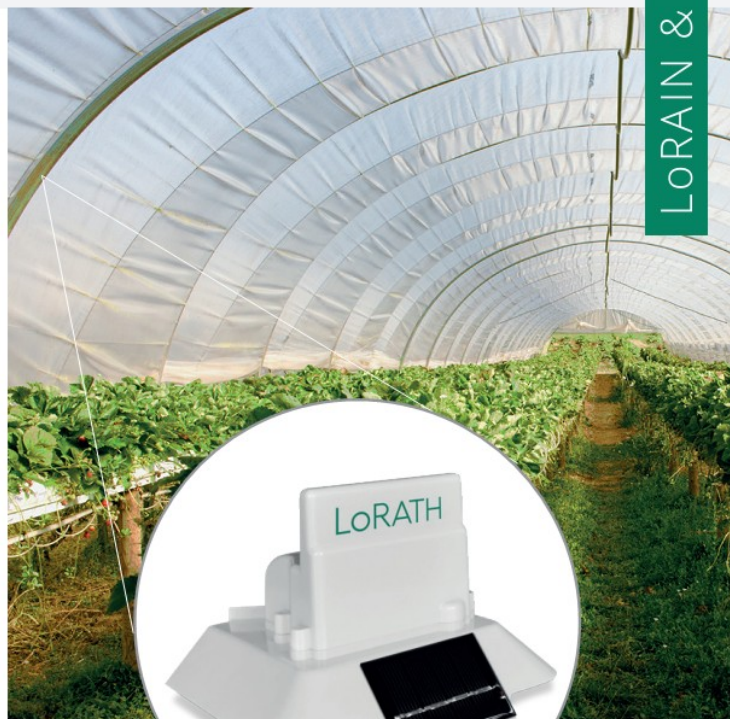
## TECHNICAL SPECIFICATIONS

	LoRAIN	LoRATH
<b>Housing</b>	UV resistant polycarbonate plastic (Protection class IP65)	
<b>Dimensions</b>	22.5 cm L x 17 cm W x 18 cm H	14.8 cm L x 11.8 cm W x 9.3 cm H
<b>Weight</b>	1,10 kg	0.25 kg
<b>Connectivity</b>	<b>LoRa:</b> within LoRaWAN network range. <b>NBLoT:</b> please check your local network provider.	
<b>Power supply</b>	Super capacitor charged with the solar panel	
<b>Measuring interval</b>	5 minutes (by default)	
<b>Logging and transmission interval</b>	15 min (by default)	
<b>SENSORS</b>		
	LoRAIN	LoRATH
<b>Rain Gauge</b>	<b>Sensitivity:</b> 1 tip per 0.2 mm	/
<b>Air Temperature</b>	<b>Operating temperature range:</b> -40 °C to +125 °C <b>Thermometer error -10 °C to +85 °C:</b> +/- 0.3 °C	
<b>Relative humidity</b>	<b>Precision 0 - 80 %:</b> +/- 2 % <b>Precision 80 - 100 %:</b> +/- 3 %	

# Product Variations

By using the proprietary intelligent sensor handling, LoRAIN and LoRATH provide additional values of:

- Leaf wetness for disease forecast (LoRAIN only),
- VPD and Delta T for defining best weather for spraying (plant protection window),
- Dew point for frost prediction.



LoRATH

**Communication: Both products exist in LoRaWAN and NBLoT version.**

## LoRAIN

Rain gauge, air temperature, air humidity and virtual sensors: leaf wetness, dew point, VPD and delta T.

## LoRAIN SOIL

Rain gauge, air temperature, air humidity, soil moisture and virtual sensors: leaf wetness, dew point, VPD and delta T.

## LoRATH

Air temperature, air humidity and virtual sensors: dew point, VPD and delta T.

## LoRATH SOIL

Air temperature, air humidity, soil moisture and virtual sensors: dew point, VPD and delta T.

