

FieldGuard LoRaWAN™ Rain Collector Station

ESTEDE | Scientific Uses LoRaWAN™ to build Private sensor networks for local farms and growers to monitor the growth conditions in their orchards, vineyards, Tunnels etc. Our LoRaWAN™ devices have been developed to measure all the important parameters that are influencing the growth and quality of your crops. Typically we setup a LoRaWAN™ Gateway at your farm to create a private LoRaWAN™ wireless sensor network with a range of approx. 10 Km, or you can connect the station to the LoRa network of your national telecom provider. There is no limit to the number of LoRaWAN™ sensor units that you want to connect to your system.

Specifications: [Rain Collector Station](#)

The FieldGuard Rain Collector Station is developed for measuring the amount of rain at a specific location. The Rain Collection station can be upgraded with an optional Temperature and humidity sensor and a leaf wetness sensor making the station suitable for disease modeling and Frost Alerts as well. The FieldGuard Rain Collector Station works with our Tracis Web Portal and RIMpro disease models. The Web Portal is available on every computer or smartphone with an internet connection. You just need to log-in to your account, and all the data from the stations in your account can be monitored, compared and analyzed (API is available for third party software). For more information about the Tracis Web Portal check www.fieldguard-stations.com

Product numbers:

- 3.002.001 FieldGuard LoRaWAN Rain Collector Station
- 3.001.002 FieldGuard LoRaWAN Rain Collector Station + T/RH sensor
- 3.001.003 FieldGuard LoRaWAN Rain Collector Station + T/RH sensor and Leaf Wetness sensor
- 3.001.004 FieldGuard LoRaWAN Rain Collector Station + T/RH sensor and SM Soil Sensor
- 3.001.005 FieldGuard LoRaWAN Rain Collector Station + T/RH sensor and SMEC300 Soil Sensor

Features:

- 2 Analog Sensor Ports (0—3 Volt)
- 2 digital I²C ports
- Typical use: measuring Rain at specific location
- Battery operated (Lithium-Ion 3.6 Volt battery)
- External power option (6—12 VDC)
- Communication: LoRaWAN™
- Spreading factor: 12
- Frequency: 868 MHz
- Range up to 10Km (LOS)

LoRaWAN™ is a Low Power Wide Area Network (LPWAN) specification intended for wireless battery operated devices in a private, regional, national or global network. LoRaWAN™ targets key requirements of Internet of Things such as secure bi-directional communication, mobility and localization services. The LoRaWAN™ specification provides seamless interoperability among smart Things without the need of complex local installations and gives back the freedom to the user, developer, businesses enabling the roll out of Internet of Things.

