



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.

FieldGuard LoRaWAN™ AquaCer 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: FieldGuard AquaCer Station

The FieldGuard AquaCer Station is developed for accurate measurement of groundwater levels based on the pressure of the water column above the AquaCer Submersible Level Transmitter. The Level transmitter uses a strong ceramic measuring cell, and is temperature compensated. The station can also be used for Level measurement of drinking water, surface water, wastewater and sludge. The Stations are Often used by water boards and water works. Measurement in water wells, reservoirs, storage tanks and underground tanks.

Product numbers:

- 3.003.001 FieldGuard LoRaWAN Rain Collector Station
- Standard cable length is 5m (cable is included)
- Additional cable lengths are available up to 100m

Features:

- Range: 0.1 to 5 bar, fixed range
- Process temperature: -10°C to +70°C
- Accuracy: 0.2% of adjusted span
- Protection sensor: IP68
- Power: 2x 3.6 Volt Lithium battery (SAFT LS14500)
- Diaphragm material: Capacitive ceramic cell
- Sensor body: AISI 316L
- Sensor Sealing: Viton O-ring
- Cable material: Polyurethane (PUR) optional PE or Hytrel
- Communication: LoRaWAN™
- Spreading factor: 12
- Frequency: 868 MHz
- Range up to 10Km (LOS)

