

# KIWI Agriculture Sensor

## LoRaWAN® Battery-Powered Sensor for Smart Agriculture

The KIWI Agriculture Sensor is the ideal solution to streamline and simplify the collection of key soil and environmental metrics for crops, residential and commercial lawns and gardens and golf courses.

- Precision Agriculture
- Irrigation Management
- Orchards & Vineyards
- Commercial & Residential Gardens
- Golf Courses
- Crop & Soil Metrics
- Greenhouses
- Public Parks & Gardens



### Technical and Functional System Specifications

#### General System Parameters

Operational Temperature	-20°C to +65°C
Degree of Protection	IP67
Size	120 x 93 x 58 mm (Sensor)
	1.5 m Probe
Battery (up to 10 years)	C Cell LTC

#### LoRa Parameters

RF Power	Up to 23 dBm (200mW)
RF Sensitivity	-137dBm (SF12, 125kHz)
ISM Band	US915, EU868, AU915, AS923, IN865, KR920, RU864
Antenna	Internal
LoRa Device Class	Class A

#### Regulatory Compliance

Safety	IEC 62368-1 (CE)
Regulatory	ETSI EN 300 220
	EN 301 489-1/3
	FCC 15.247 RSS-247
	FCC 15.209 RSS-Gen

### Key Features

- » 10 Year Battery Life
- » IP67 Design
- » C Cell LTC Battery
- » Battery Status Indicator
- » All Global ISM Bands
- » Elevated Mounting Option with External Probes
- » Two options available: 2-probe or 4-probe version
- » New Extension Connector: 1.5 m

### Applications

- » Soil Moisture and Temperature
- » Ambient Humidity and Temperature
- » Mounting Orientation Status
- » Movement or Orientation Change Detection
- » Light Detection and Measurement