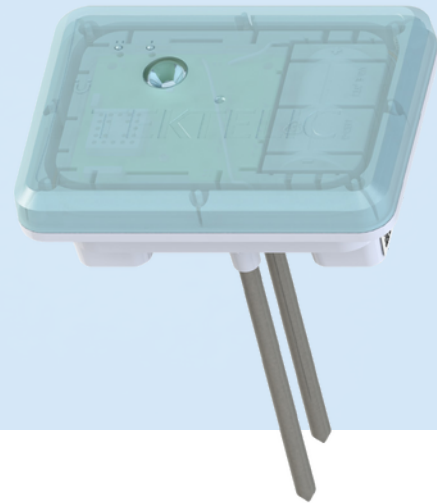


CLOVER Agriculture Sensor

LoRaWAN® Battery-Powered Sensor for Smart Agriculture

The **CLOVER 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	-40°C to +65°C
Degree of Protection	IP67
Size	120 x 93 x 58 mm (Sensor)
	0.3m - 1m (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	All Global Bands
Antenna	Internal or Optional External
LoRa Device Class	Class A (B)

Regulatory Compliance

Safety	UL 60950-1 (US/C), IEC 60950-1 (CE)
Environmental	ETSI EN 300 019-2-1, 300 019-2-2
	ETSI EN 300 019-2-3, 300 019-2-4
Regulatory	FCC 15.247 RSS-247
	FCC 15.209 RSS-Gen

Key Features

- » 10 Year Battery Life
- » IP67 Design
- » Internal or Optional External Antenna
- » C Cell LTC Battery
- » Battery Status Indicator
- » All Global ISM Bands
- » Soil Surface Mounting Option

Applications

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

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Product Variants

Option 1:	CLOVER - Soil Surface Mount
Option 2:	KIWI Elevated Mount - 3x Kit Options
Kit 1:	Sensor Only (no probes included)
Kit 2:	Includes 1x Irrometer® Watermark Soil Moisture Sensor and 1x Soil Thermistor
Kit 3:	Includes 2x Irrometer® Watermark Soil Moisture Sensor and 2x Soil Thermistor
Option 3 :	Custom Variants available upon request. Please contact TEKTELIC for details

