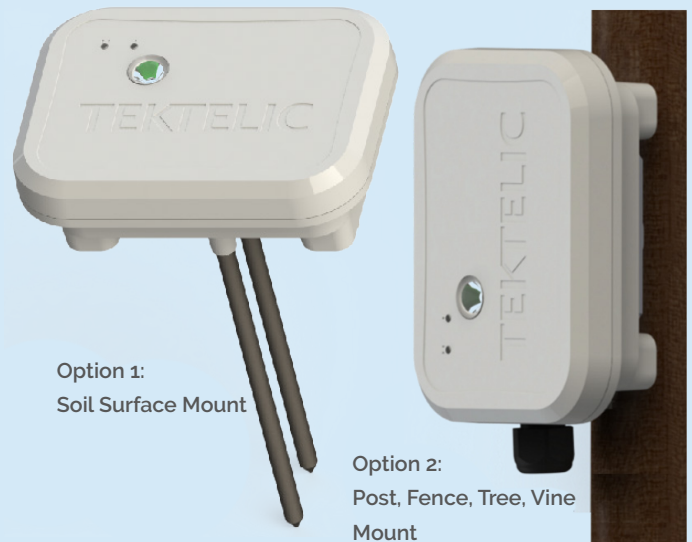


KONA Agriculture Sensor

LoRaWAN™ Battery-Powered Sensor for Smart Agriculture

The KONA Agriculture Sensor is the ideal solution to streamline and simplify collection of key soil and crop metrics in the field. The sensor is straightforward and easy to deploy for soil moisture and temperature, air humidity and temperature, and outdoor light monitoring. The Agriculture Sensor can detect movement or changes in its orientation for event based transmission. Customers will benefit from increased crop yields and decreased operating expenses with the TEKTELIC Agriculture Sensor.

The Agriculture Sensor utilizes a ruggedized IP-67 enclosure for use in the most challenging outdoor environments. An integrated C-Cell LTC battery provides substantial battery life up to 10 years with a battery status reports and indicators for easy reference. The Agriculture Sensor is seamlessly integrated in TEKTELIC's End-to-End IoT solution.



Option 1:
Soil Surface Mount

Option 2:
Post, Fence, Tree, Vine
Mount

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

Applications

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