senzemo

Senstick KOU20

Senstick is an award-winning LoRaWAN sensor. It is designed to operate autonomously for up to 7 years in harsh environments. It is suitable for wide variety of applications where reliable and case specific solution is needed. KOU20 is a cost-effective compost temperature sensor.

Key features
- Harsh environments
- Rigidized housing
- Easy installation
- Motion detection
- NFC configuration

Applications
- Compost temperature
- Soil temperature
- Mulch temperature

CE FC LoRaWAN™

Technical specification

Enclosure	
Weight	3kg
Dimensions	Casing: 145cm x 4cm (custom length possible - contact sales)
Materials	Oxidized aluminum
IP rating	IP68

Operating conditions	
Temperature	-40°C to +85°C
Humidity	0 to 100% RH

Power supply	
Battery type	1 x 3.6V AA Battery
Expected operation	<7 years (depending on sampling, signal, environment)

Configuration	
Sending interval	Configuration via NFC and downlink
Data upload interval	Configuration via NFC and downlink
NFC configuration	Native Android App

Connectivity	
Wireless Technology	LoRaWAN® 1.0.3
Wireless Security	LoRaWAN® End-to-End encryption (AES-CTR), Data Integrity Protection (AES-CMAC)
LoRaWAN Device Type	Class A - End-device
Supported regions	US902–928, EU863–870, AS920-923, AU915–928 (Contact sales for more)
Link Budget	137dB (SF7) to 151dB (SF12)
RF Transmit Power	14dBm (Region specific)

Sensors

Temperature Probe	
Range	-55°C to +105°C
Accuracy	±1°C

Acceleration - Movement detection	
Range	±2g to ±16g