

Senstick Microclimate SMC30

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. It combines measurements of temperature, humidity and air pressure.

Key features

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

Applications

- Frost protection
- Thermal comfort in cities
- Machine failure in production
- Harvested yield



Technical specification

Enclosure	
Weight	120g w/ batteries / 170 g with batteries
Dimensions	18mm x 210mm
Materials	UV stable plastic, ALU casing, stainless steel mesh
IP rating	IP65
Operating conditions	
Temperature	-40°C to +85°C
Humidity	0 to 100% RH
Power supply	
Battery type	2 x 1.5V AAA Alkaline
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
Link Budget	137dB (SF7) to 151dB (SF12)
RF Transmit Power	14dBm (Region specific)

Sensors

Temperature

Range	-40°C to +85°C
Accuracy	±0.2°C

Relative humidity

Range	0% to 100%
Accuracy	±1.8%

Acceleration

Range	±2g to ±16g
Accuracy	±40mg

Air Pressure

Range	300 to 1200hPa
Accuracy (absolute)	±1hPa

Accessories

SWP10	Solar shield with mounting for poles
MPOM10	Snap-on mounting kit, suitable for indoor use
MABS10	ABS mounting kit. Installation with two screws for indoor and outdoor use
MALU10	Rigidized ALU mounting kit. Installation with two screws for indoor and outdoor use.

