

Senstick Microclimate SMC40

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	90g w/ batteries / 140 g with batteries
Dimensions	27mm x 122.5mm
Materials	UV stable plastic
IP rating	IP65
Operating conditions	
Temperature	-40°C to +85°C
Humidity	0 to 100% RH
Power supply	
Battery type	1 x 1.5V AA 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

Datasheet

Release: 19.7.2023
Version: 1.0

senzemo

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

SENSIRION

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