

Senstick Probe Soil Moisture SSM40

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. SSM40 is a cost-effective soil moisture sensor.

Key features

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

Applications

- Soil moisture
- Irrigation failure detection
- Soil workability
- Green roofs



Technical specification

Enclosure	
Weight	170g w/ batteries / 230 g with batteries
Dimensions	Casing: 105mm x 25mm / Probe: 20mm x 140 mm
Cable length	1.5 m or custom
Materials	UV stable plastic
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 Lithium
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: 26.4.2023
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

Volumetric water content (VWC)

Range	0% to 100%
-------	------------

Acceleration

Range	±2g to ±16g
-------	-------------

Accessories

METER EC-5 PROBE	Available with EC-5 soil probe
MPOM10	Snap-on mounting kit
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.

