



SenseCAP S2104

Soil Temperature and Moisture Sensor

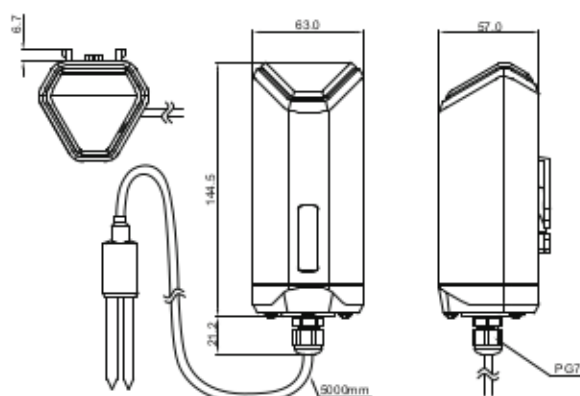
SenseCAP S2105

Soil Temperature, Moisture and EC Sensor

Specifications

Soil Temperature	
Range	-40 to +80 °C
Accuracy	0 to 50°C: ± 0.5 °C
	-40 to 0, 50 to 80°C: ± 1 °C
Resolution	0.1 °C
Soil Moisture (VWC-Volumetric Water Content)	
Range	0 to 100% (air – water)
Accuracy	0 to 50%: ± 3 %
	50 to 100%: ± 5 %
Resolution	0 to 50%: 0.1 %
	50 to 100%: 0.5 %
Electrical Conductivity (Only supported in S2105)	
Range	0 to 23 dS/m
Accuracy(0-50°C)	0 to 5 dS/m: ± 5 %
	5 to 23 dS/m: ± 10 %
Resolution	0 to 5 dS/m: 0.01dS/m
	5 to 23 dS/m: 0.1dS/m
General Parameters	
Product Model	S2104/S2105
Microcontroller	Wio-E5
Support Protocol	LoRaWAN v1.0.3 Class A
Built-in Bluetooth	App Tool to change parameters
LoRaWAN Channel Plan	IN865/EU868/US915/AU915/ AS923/KR920/RU864 *
Max Transmitted Power	19dBm
Sensitivity	-136dBm@SF12 BW=125KHz
Communication Distance	2 to 10 km (depending on gateway antenna and environments)
IP Rating	IP66
Operating Temperature	-40 to +85 °C
Operating Humidity	0 to 100 %RH (non-condensing)
Device Weight	405g
Cable Length	5 meters
Certification	CE / FCC / RoHS
Battery (Contained in equipment)	
Battery Life	Up to 10 years**
Battery Capacity	19Ah (non-rechargeable)
Battery Type	Standard D-size SOCI2 Battery

Dimension



* A device supports different frequencies and can be configured via the Bluetooth App.

** The battery life varies from data upload interval and distance between gateway.