



SENSECAP

# LoRaWAN Gateway and Wireless Sensor Catalog

Version: V1.7

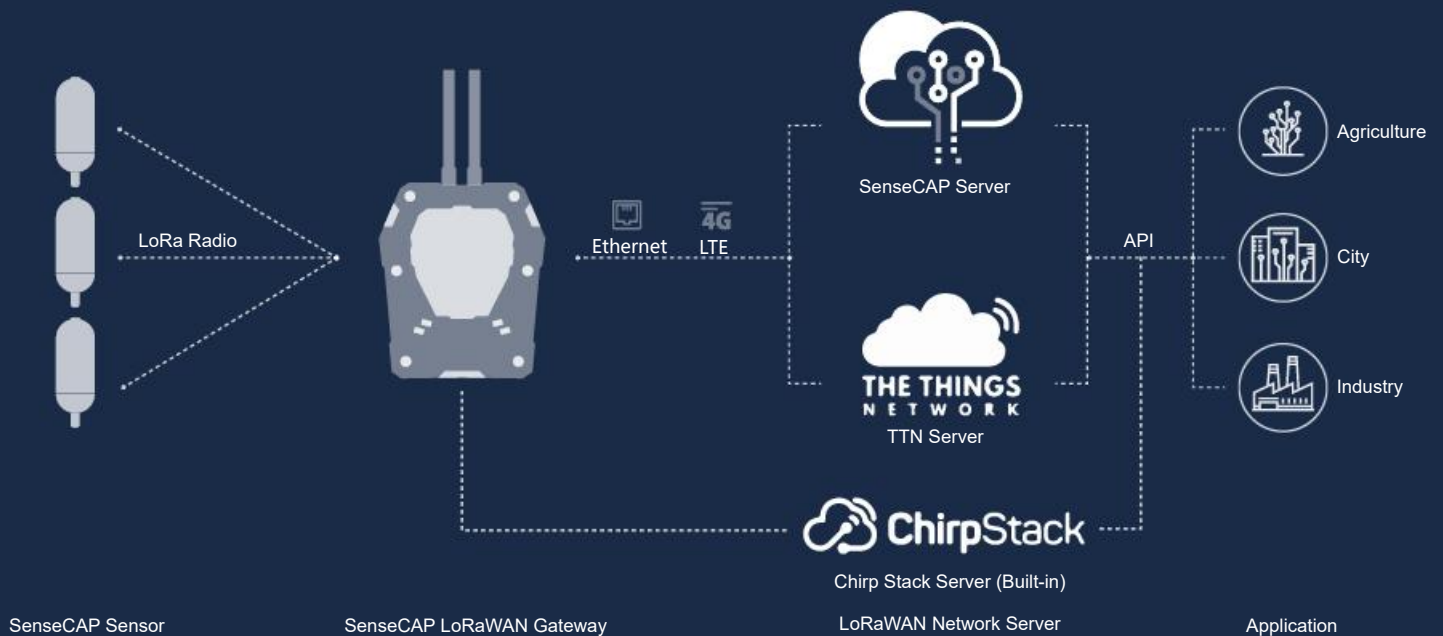


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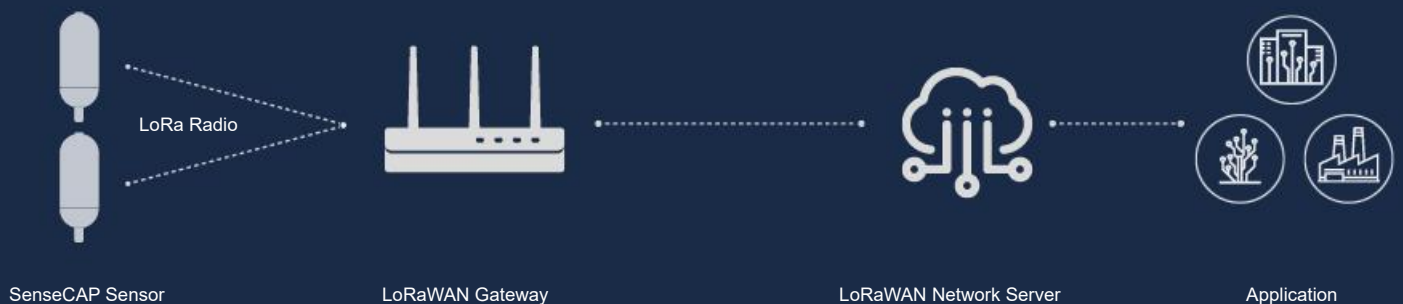
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## System Architecture

### SenseCAP Architecture



### SenseCAP Sensor + Other LoRaWAN Gateway Architecture



# About SenseCAP

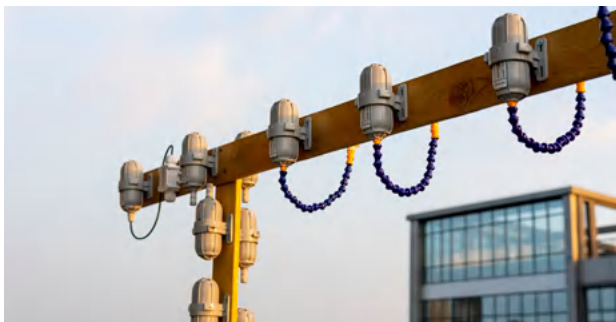
SenseCAP is an industrial wireless sensor network that integrates easy-to-deploy hardware and data API services, enabling low-power, long-distance environmental data collection. SenseCAP includes several versions, such as LoRaWAN, SensorHub-LTE, etc.

SenseCAP LoRaWAN version products include LoRaWAN Gateways and Sensor Nodes. Based on LoRaWAN protocol, it can realize one-to-many, long-distance networking, and bilateral communication. The LoRaWAN gateway supports Ethernet and 4G. The sensor node is powered by a high-capacity battery that lasts up to 3 years (uploading data once per hour). It also supports hot-swap, making it easy for maintenance and upgrading.

SenseCAP provides an easy-to-use portal. Users can scan the QR code with the App to bind the device with its respective account, manage the devices, and check sensor data on the portal. SenseCAP Portal provides API for users to develop based on the data on the portal further.

## Features of SenseCAP LoRaWAN Gateway

- Support LoRaWAN protocol Class A
- Cortex A8 processor, Linux system, stable and reliable
- Ultra-wide-distance transmission: 10km in line of sight scene, 2 km in the urban scene
- Support multiple ISM bands: EU868, US915, AU915, AS923
- Support remote modification of Node collection frequency
- 4G and Ethernet connectivity, suitable for multiple scenes.
- Provides a variety of cloud services and data API interfaces
- Industrial grade protection: IP66 enclosure, suitable for outdoor applications
- Operating temperature -40 °C to +70 °C



## Features of SenseCAP LoRaWAN Sensors

- Support LoRaWAN protocol Class A
- High reliability and stability
- Ultra-wide-distance transmission: 10km in line of sight scene, 2 km in the urban scene
- Battery life  $\geq 3$  years
- Support remote modification of Node collection frequency
- Support the local modification of EUI, AppKey, AppEui
- Rapid installation and deployment
- IP66 enclosure, suitable for outdoor applications



## Application

- Smart Agriculture
- Smart Cities
- Smart Buildings
- Smart Industry
- Environmental Monitoring
- Other Wireless Sensing Applications



SenseCAP LoRaWAN Gateway can access SenseCAP Server, The Thing Network Server and The ChirpStack open-source LoRaWAN Network Server.

SenseCAP Sensor can be used not only with the SenseCAP LoRaWAN Gateway but also with other standard LoRaWAN gateways. The Sensor is designed with a fixed LoRa channel, which can not be modified by users. The supported channels are as follows. Please refer to the user manual for how to connect this device with a LoRaWAN gateway.

EU868	
Uplink	Frequency(MHz): 868.1, 868.3, 868.5, 867.1, 867.3, 867.5, 867.7, 867.9 (SF7BW125 to SF12BW125)
Downlink	Multiplexing the frequency points of the 8 uplink channels. 869.525MHz -SF9BW125 (RX2 downlink only)
US915	
Uplink	Frequency(MHz): 903.9, 904.1, 904.3, 904.5, 904.7, 904.9, 905.1, 905.3 (SF7BW125 to SF10BW125)
Downlink	Frequency(MHz): 923.3, 923.9, 924.5, 925.1, 925.7, 926.3, 926.9, 927.5 (SF7BW500 to SF12BW500)
AU915	
Uplink	Frequency(MHz): 916.8, 917.0, 917.2, 917.4, 917.6, 917.8, 918.0, 918.2(SF7BW125 to SF10BW125)
Downlink	Frequency(MHz): 923.3, 923.9, 924.5, 925.1, 925.7, 926.3, 926.9, 927.5 (SF7BW500 to SF12BW500)
AS923	
Uplink	AS1 Frequency(MHz): 923.2, 923.4, 922.2, 922.4, 922.6, 922.8, 923.0, 922.0, 922.1 AS2 Frequency(MHz): 923.2, 923.4, 923.6, 923.8, 924.0, 924.2, 924.4, 924.6, 924.5
Downlink	AS1: Uplink channels 1-10 (RX1) 923.2 - SF10BW125 (RX2) AS2: Uplink channels 1-10 (RX1) 923.2 - SF10BW125 (RX2)

\* Please refer to Frequency Plans for specific parameters.

## SenseCAP Gateway - LoRaWAN



### Introduction

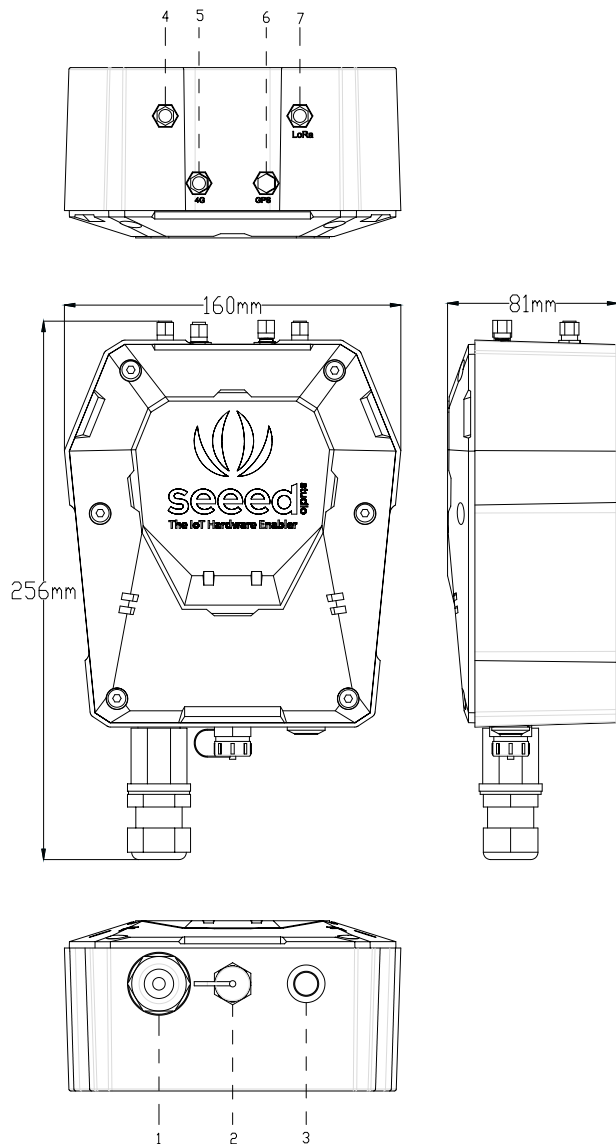
SenseCAP LoRaWAN Gateway(\*) is based on LoRaWAN®(\*\*) protocol, applicable for low-power, long-distance environmental data collection and monitoring in scenarios such as smart agriculture and smart city, etc. As the central device of the LoRa network, the gateway is used for collecting data from different Sensor Nodes and transmit the data to the SenseCAP Portal via 4G or Ethernet cable. Equipped with a high-performance processor and telecom-operator-level LoRa chip, this gateway ensures stable and high performance in a large-scale network. The gateway is designed with an IP66-protection-level enclosure, making it suitable for industrial applications in severe outdoor environments.

### Specifications

Product Model	
Model	Region
LoRa-G-868-E/4G	European, Africa, Asia (India etc.)
LoRa-G-923-E/4G	Japan, Malaysia, Singapore, Brunei, Cambodia, Hong Kong, Indonesia, Laos, Taiwan, Thailand, Vietnam, Peru etc.
LoRa-G-915-E/4G	USA, Canada and South America
LoRa-G-AU915-E/4G	Australia, etc.
LoRa Parameters	
Protocol	Based on LoRaWAN v1.0.2 protocol
Channel Plan	EU868/US915/AU915/AS923
Power Output	25dBm
Sensitivity	-139dBm (SF12BW125)
General Parameters	
CPU	TI AM3358 Cortex-A8 1GHz
System	Linux Debian
RAM	DDR3 512MB
Memory	8GB eMMC
Ethernet	100Mbps FE (RJ-45)
4G Band	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28 LTE-TDD: B38/B39/B40/B41 WCDMA: B1/B2/B4/B5/B6/B8/B19 GSM: 850/900/1800/1900MHz Support non-CA Cat 4 FDD and TDD LTE-FDD: Max 150Mbps (DL), Max 50Mbps (UL) LTE-TDD: Max 130Mbps (DL), Max 30Mbps (UL)
4G Features	

General Parameters	
UMTS Features	Support 3GPP R8 DC-HSDPA, HSPA+, HSDPA, HSUPA and WCDMA DC-HSDPA: Max 42Mbps (DL) HSUPA: Max 5.76Mbps (UL) WCDMA: Max 384Kbps (DL), Max 384Kbps (UL)
LoRa Antenna	2.5dBi gain / Vertical polarization / Omni-directional / SMA-J connector
4G Antenna	0-4 dBi gain / Linear polarization / Omni-directional / SMA-J connector
LED Indicator	Indicating network condition (online/offline)
Grounding	Reserved 1 screw hole for GND
Power Consumption	3.6W
Power Supply	DC 12V/2A
IP Rating	IP66
UV Resistance	anti-aging (from rain/sun exposure): UL746C F1
Enclosure Material	PC
Operating Temperature	-40 °C to +70 °C
Operating Humidity	0 to 100 %RH (non-condensing)
Installation Method	Wall or pole mounting
Device Weight	777g

## Device Dimensions



1. Ethernet Port
2. Power Connector
3. LED
4. Reserved
5. 4G Antenna Connector
6. Reserved
7. LoRa Antenna Connector

## Certification



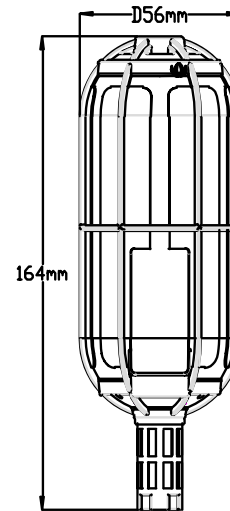
\*\* The LoRaWAN® name and the associated logo are licensed by the LoRa Alliance.

\* SenseCAP LoRaWAN Gateway can access SenseCAP Server, The Thing Network Server and The ChirpStack open-source LoRaWAN Network Server. However, it can only be used with SenseCAP Sensor.

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### SenseCAP Wireless Air Temperature and Humidity Sensor - LoRaWAN

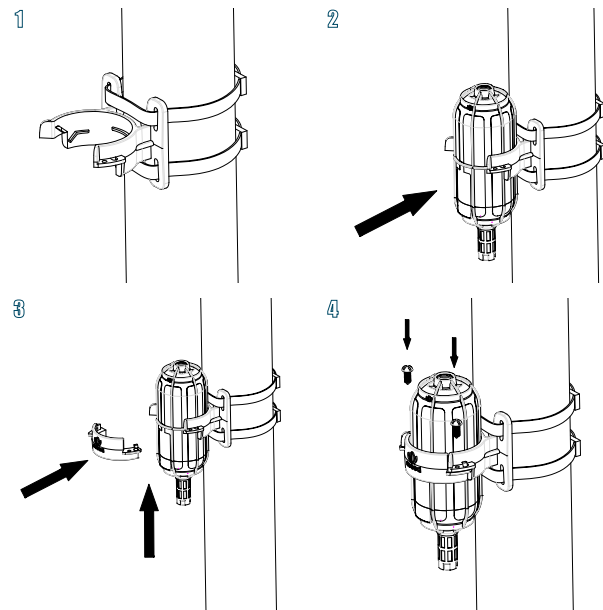


#### Specifications

Air Temperature	
Range	-40 °C to +85 °C
Accuracy	±0.3 °C
Resolution	0.1 °C
Drift	< 0.03 °C /year
Air Humidity	
Range	0 to 100 %RH (non-condensing)
Accuracy	±2 %RH
Resolution	1 %RH
Drift	< 0.25 %RH/year
General Parameters	
Product Model	*LoRa-S-868/915/AU915/923-TH-01
Microcontroller	Ultra-low-power MCU
Support Protocol	Based on LoRaWAN v1.0.2 protocol
LoRa Channel Plan	EU868 / US915 / AU915 / AS923
LoRa Power Output	16 dBm (EIRP)
Sensitivity	EU868: -137.5dBm(SF12, BW125KHz) US915/AU915/AS923: -136.5dBm(SF12, BW125KHz)
Current Consumption	5 µA (sleep mode) 120 mA max(active mode)
Communication Distance	2 to 10 km (depending on different antennas and environments)
Battery Life	≥ 3 year (upload data once per hour)
Battery Voltage	3.6V
Battery Capacity	19Ah (Non-rechargeable)
IP Rating	IP66 (Sensor Node) IP65 (Sensor Probe)
UV Resistance	anti-aging (from rain/sun exposure): UL746C F1
Enclosure Material	PC
Operating Temperature	-40 °C to +85 °C
Operating Humidity	0 to 100 %RH (non-condensing)
Device Weight	236g

#### Installation

Please refer to the user manual for more details.



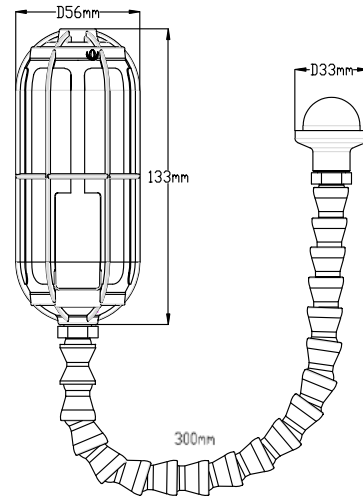
#### Certification



\* LoRa-S-868-TH-01, LoRa-S-915-TH-01, LoRa-AU915-TH-01, LoRa-AS923-TH-01.  
LoRa-S-915-TH-01 is US915 version. Other sensor models are similar.  
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### SenseCAP Wireless Light Intensity Sensor - LoRaWAN



#### Specifications

##### Light Intensity

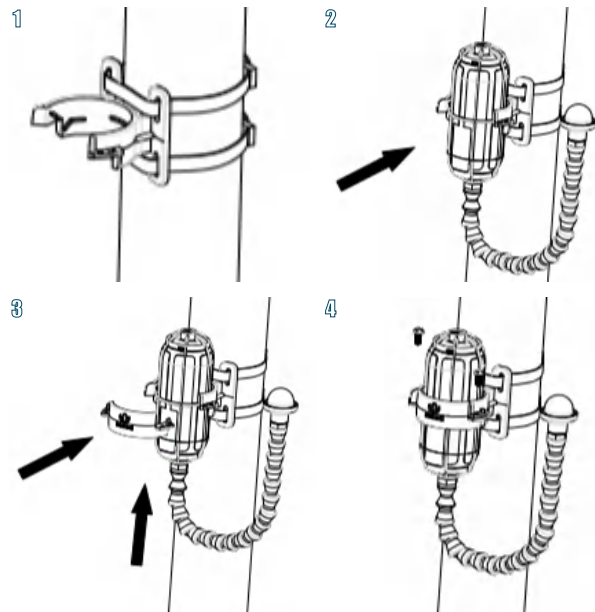
Range	0 to 188000 Lux
Sensitivity	0.045 Lux/LSB
Resolution	0.045 Lux

##### General Parameters

Product Model	LoRa-S-868/915/AU915/923-Light Intensity-01
Microcontroller	Ultra-low-power MCU
Support Protocol	Based on LoRaWAN v1.0.2 protocol
LoRa Channel Plan	EU868 / US915 / AU915 / AS923
LoRa Power Output	16 dBm (EIRP)
Sensitivity	EU868: -137.5dBm(SF12, BW125KHz) US915/AU915/AS923: -136.5dBm(SF12, BW125KHz)
Current Consumption	5 $\mu$ A (sleep mode) 120 mA max(active mode)
Communication Distance	2 to 10 km (depending on different antennas and environments)
Battery Life	$\geq$ 3 year (upload data once per hour)
Battery Voltage	3.6V
Battery Capacity	19Ah (Non-rechargeable)
IP Rating	IP66
UV Resistance	anti-aging (from rain/sun exposure): UL746C F1
Enclosure Material	PC
Operating Temperature	-40 $^{\circ}$ C to +85 $^{\circ}$ C
Operating Humidity	0 to 100 %RH (non-condensing)
Device Weight	288g

#### Installation

Please refer to the user manual for more details.

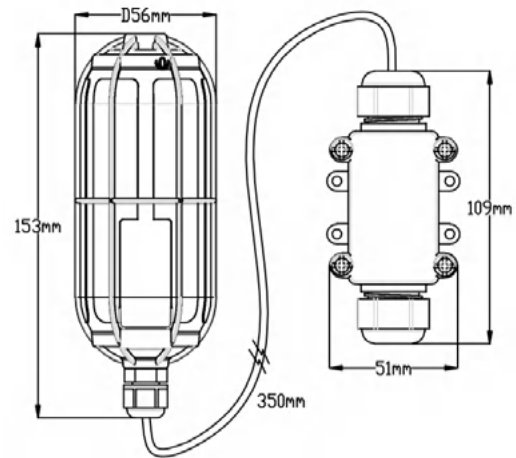


#### Certification





### SenseCAP Wireless CO2 Sensor - LoRaWAN



### Specifications

#### CO2

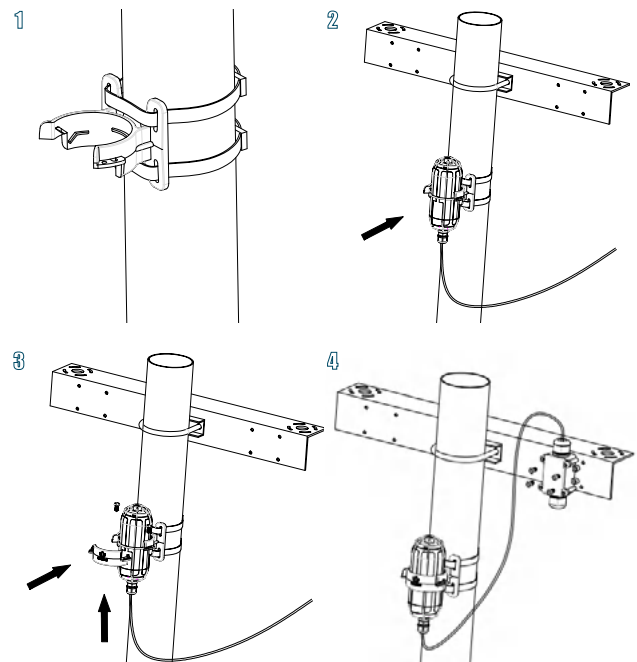
Parameters	Condition	Value
Range	-	0 to 40000 ppm
Accuracy	400 to 10000ppm	±(30 ppm + 3 %MV)
Resolution	-	1 ppm
Temperature Stability	T = 0 to 50 °C 400 to 10000 ppm	±2.5 ppm / °C

#### General Parameters

Product Model	LoRa-S-868/915/AU915/923-CO2-01
Microcontroller	Ultra-low-power MCU
Support Protocol	Based on LoRaWAN v1.0.2 protocol
LoRa Channel Plan	EU868 / US915 / AU915 / AS923
LoRa Power Output	16 dBm (EIRP)
Sensitivity	EU868: -137.5dBm(SF12, BW125KHz) US915/AU915/AS923: -136.5dBm(SF12, BW125KHz)
Current Consumption	5 µA (sleep mode) 120 mA max(active mode)
Communication Distance	2 to 10 km (depending on different antennas and environments)
Battery Life	≥ 3 year (upload data once per hour)
Battery Voltage	3.6V
Battery Capacity	19Ah (Non-rechargeable)
IP Rating	IP66 (Sensor Node) Indoor (Sensor Probe) *
UV Resistance	anti-aging (from rain/sun exposure): UL746C F1
Enclosure Material	PC
Operating Temperature	0 °C to +50 °C
Operating Humidity	0 to 95 %RH
Device Weight	319g

### Installation

Please refer to the user manual for more details.



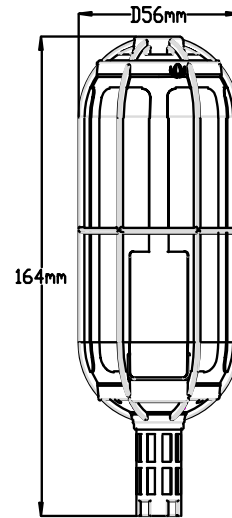
### Certification



\* The Sensor Probe's membrane is not waterproof !



### SenseCAP Wireless Barometric Pressure Sensor - LoRaWAN

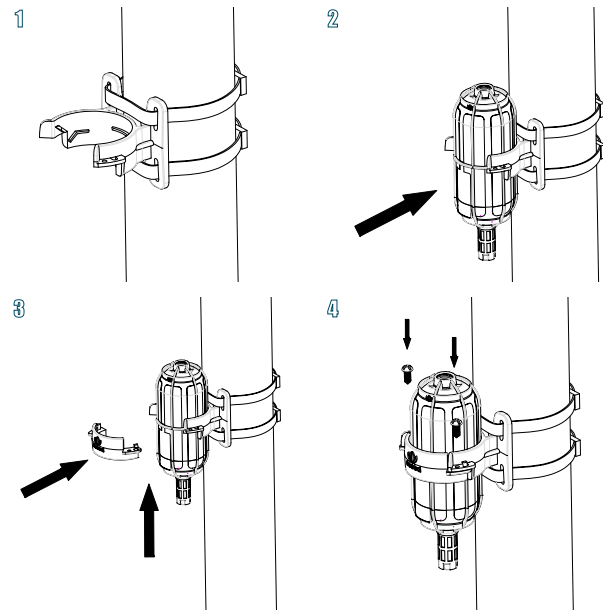


#### Specifications

Barometric Pressure		
Parameters	Condition	Value
Range	-	300~1100 hPa
Resolution	-	1 Pa
Relative Accuracy	700 to 900 hPa 25 to 40 °C	±0.12 hPa
Absolute Accuracy	300 to 1100 hPa -20 to 0 °C	±1.7 hPa
Absolute Accuracy	300 to 1100 hPa 0 to 65 °C	±1.0 hPa
Temperature Coefficient Offset	900 hPa 25 to 40 °C	1.5 Pa/K
Drift	-	±1.0 hPa/year
General Parameters		
Product Model	LoRa-S-868/915/AU915/923-Baro-01	
Microcontroller	Ultra-low-power MCU	
Support Protocol	Based on LoRaWAN v1.0.2 protocol	
LoRa Channel Plan	EU868 / US915 / AU915 / AS923	
LoRa Power Output	16 dBm (EIRP)	
Sensitivity	EU868: -137.5dBm(SF12, BW125KHz) US915/AU915/AS923: -136.5dBm(SF12, BW125KHz)	
Current Consumption	5 μA (sleep mode) 120 mA max(active mode)	
Communication Distance	2 to 10 km (depending on different antennas and environments)	
Battery Life	≥ 3 year (upload data once per hour)	
Battery Voltage	3.6V	
Battery Capacity	19Ah (Non-rechargeable)	
IP Rating	IP66 (Sensor Node) IP65 (Sensor Probe)	
UV Resistance	anti-aging (from rain/sun exposure): UL746C F1	

#### Installation

Please refer to the user manual for more details.



#### General Parameters

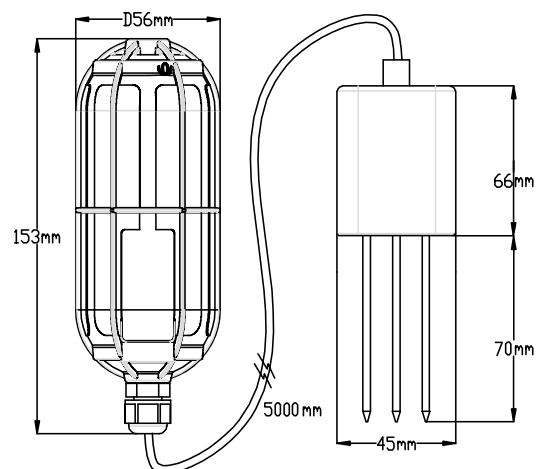
Enclosure Material	PC
Operating Temperature	-40 to +85 °C (full accuracy: 0 to 65°C )
Operating Humidity	0 to 100 %RH (non-condensing)
Device Weight	237g

#### Certification





### SenseCAP Wireless Soil Moisture and Temperature Sensor - LoRaWAN

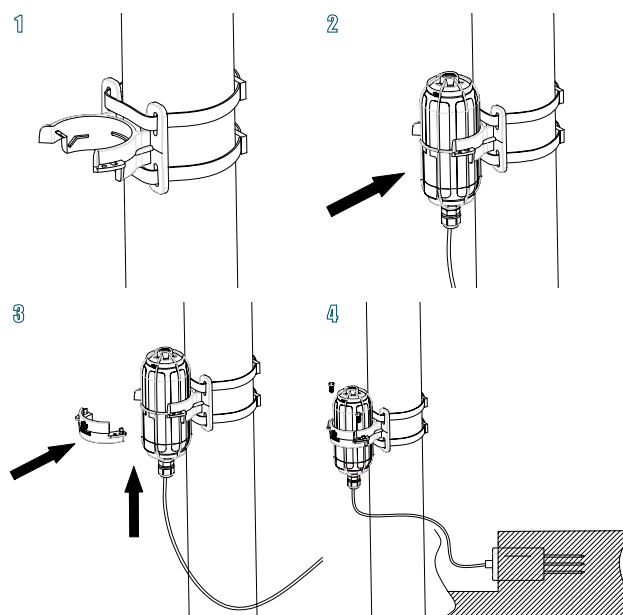


#### Specifications

Soil Temperature	
Range	-30 °C to +70 °C
Accuracy	±0.5 °C
Resolution	0.1 °C
Soil Moisture	
Range	From completely dry to fully saturated (from 0% to 100% of saturation)
Accuracy	±2% ( 0 to 50 %) ±3% ( 50 to 100 %)
Resolution	0.03%( 0 to 50 % ); 1%( 50 to 100 % )
General Parameters	
Product Model	LoRa-S-868/915/AU915/923-Soil MT-01
Microcontroller	Ultra-low-power MCU
Support Protocol	Based on LoRaWAN v1.0.2 protocol
LoRa Channel Plan	EU868 / US915 / AU915 / AS923
LoRa Power Output	16 dBm (EIRP)
Sensitivity	EU868: -137.5dBm(SF12, BW125KHz) US915/AU915/AS923: -136.5dBm(SF12, BW125KHz)
Current Consumption	5 µA (sleep mode) 120 mA max(active mode)
Communication Distance	2 to 10 km (depending on different antennas and environments)
Measuring Area	A cylinder area (with the probe as the center, diameter: 7cm, height: 7cm)
Battery Life	≥ 3 year (upload data once per hour)
Battery Voltage	3.6V
Battery Capacity	19Ah (Non-rechargeable)
IP Rating	IP66
UV Resistance	anti-aging (from rain/sun exposure): UL746C F1
Enclosure Material	PC
Operating Temperature	-30 °C to +70 °C
Operating Humidity	0 to 100 %RH (non-condensing)
Device Weight	415g

#### Installation

Please refer to the user manual for more details.

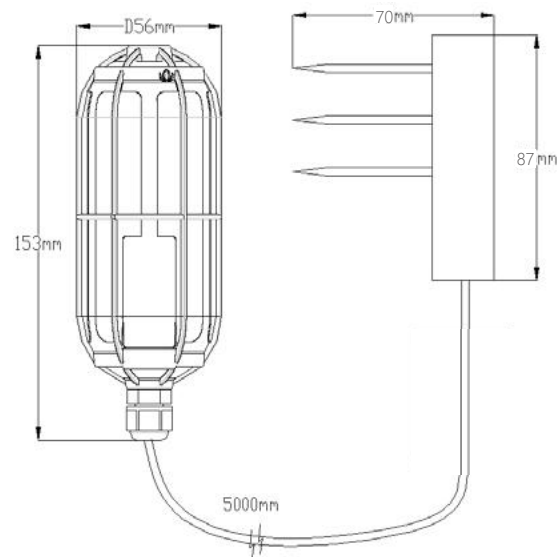


#### Certification





### SenseCAP Wireless Soil Temperature, VWC & EC Sensor - LoRaWAN



#### Specifications

##### Soil Temperature

Range	-40 °C to +80 °C
Accuracy	±0.5 °C from -40 to 0 °C
Resolution	0.1 °C

##### Soil Volumetric Water Content

Range	From completely dry to fully saturated (from 0% to 100% of saturation)
Accuracy	±3 % (0~51%) ±5 % (51~100%)
Resolution	0.1 % (0~51%) ; 0.3% (51~100%)

##### Soil Electrical Conductivity

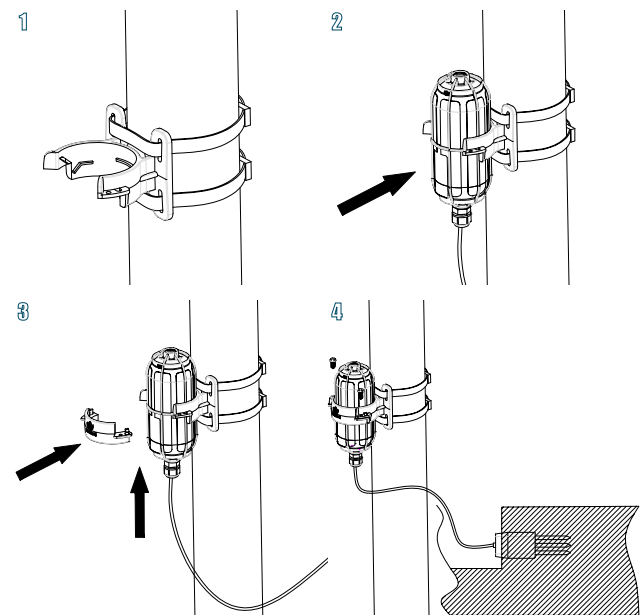
Range	0 to 23000 uS/cm
Accuracy	±5% from 0~7000uS/cm ±15% from 7000~23000uS/cm
Resolution	10 uS/cm (0~7000uS/cm) 50 uS/cm (7000~23000uS/cm)

##### General Parameters

Product Model	LoRa-S-868/915/AU915/923-Soil Temp&VWC&EC-01
Microcontroller	Ultra-low-power MCU
Support Protocol	Based on LoRaWAN v1.0.2 protocol
LoRa Channel Plan	EU868 / US915 / AU915 / AS923
LoRa Power Output	16 dBm (EIRP)
Sensitivity	EU868: -137.5dBm(SF12, BW125KHz) US915/AU915/AS923: -136.5dBm(SF12, BW125KHz)
Current Consumption	5 µA (sleep mode) 120 mA max(active mode)
Communication Distance	2 to 10 km (depending on different antennas and environments)
Battery Life	≥ 3 year (upload data once per hour)
Battery Voltage	3.6V
Battery Capacity	19Ah (Non-rechargeable)
IP Rating	IP66

#### Installation

Please refer to the user manual for more details.



##### General Parameters

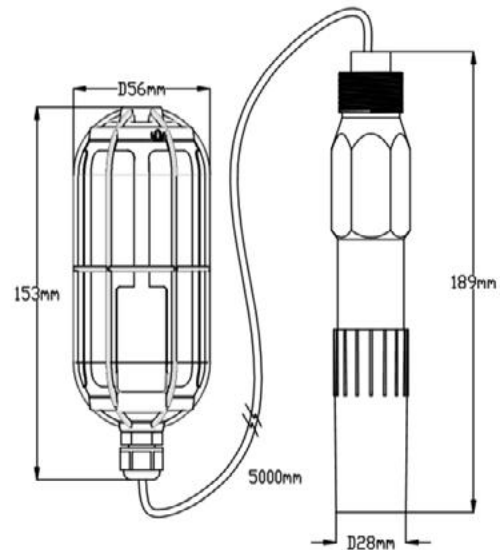
UV Resistance	anti-aging (from rain/sun exposure): UL746C F1
Enclosure Material	PC
Operating Temperature	-40 °C to +60 °C
Operating Humidity	0 to 100 %RH (non-condensing)
Device Weight	385g

#### Certification





### SenseCAP Wireless pH Sensor

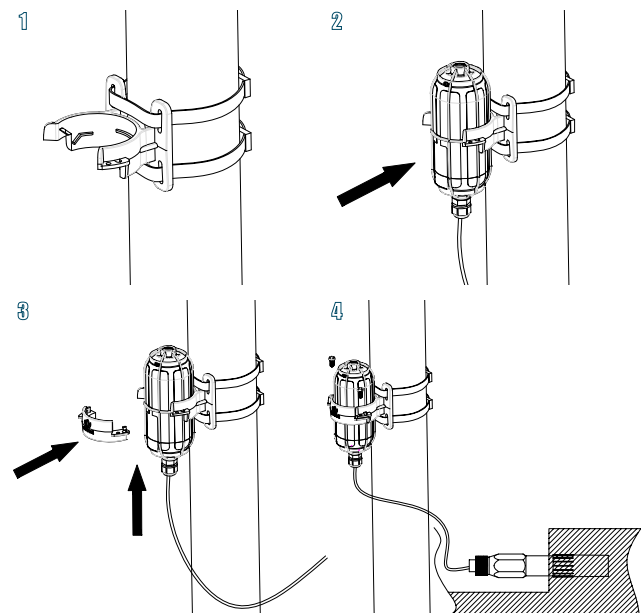


### Specifications

pH	
Range	0~14 pH
Accuracy	±0.1 pH
Resolution	0.1 pH
General Parameters	
Product Model	LoRa-S-868/915/AU915/923-pH-01
Microcontroller	Ultra-low-power MCU
Support Protocol	Based on LoRaWAN v1.0.2 protocol
LoRa Channel Plan	EU868 / US915 / AU915 / AS923
LoRa Power Output	16 dBm (EIRP)
Sensitivity	EU868: -137.5dBm(SF12, BW125KHz) US915/AU915/AS923: -136.5dBm(SF12, BW125KHz)
Current Consumption	5 $\mu$ A (sleep mode) 120 mA max(active mode)
Communication Distance	2 to 10 km (depending on different antennas and environments)
Battery Life	≥ 3 year (upload data once per hour)
Battery Voltage	3.6V
Battery Capacity	19Ah (Non-rechargeable)
IP Rating	IP66
UV Resistance	anti-aging (from rain/sun exposure): UL746C F1
Enclosure Material	PC
Operating Temperature	-20 °C to +50 °C
Operating Humidity	0 to 100 %RH (non-condensing)
Device Weight	594g

### Installation

Please refer to the user manual for more details.

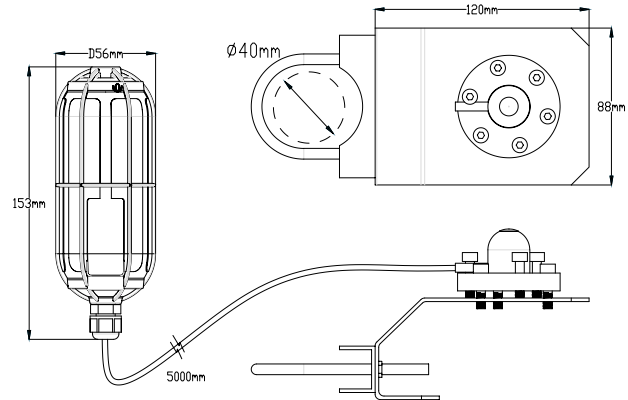


### Certification





### SenseCAP Wireless PAR Sensor - LoRaWAN



### Specifications

#### Photosynthetically Active Radiation

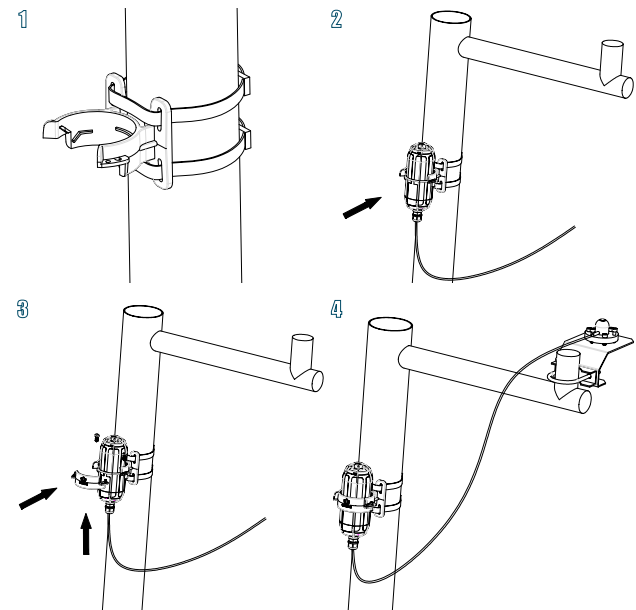
Range	0 to 2000 $\mu\text{mol m}^{-2} \text{s}^{-1}$ (410 to 655 nm)
Sensitivity	0.2 mV/ $\mu\text{mol m}^{-2} \text{s}^{-1}$
Resolution	1 $\mu\text{mol m}^{-2} \text{s}^{-1}$
Non-stability (Long-term Drift)	< 2% / year
Measurement Repeatability	< 1 %
Field of View	180°

#### General Parameters

Product Model	LoRa-S-868/915/AU915/923-PAR-01
Microcontroller	Ultra-low-power MCU
Support Protocol	Based on LoRaWAN v1.0.2 protocol
LoRa Channel Plan	EU868 / US915 / AU915 / AS923
LoRa Power Output	16 dBm (EIRP)
Sensitivity	EU868: -137.5dBm(SF12, BW125KHz) US915/AU915/AS923: -136.5dBm(SF12, BW125KHz)
Current Consumption	5 $\mu\text{A}$ (sleep mode) 120 mA max(active mode)
Communication Distance	2 to 10 km (depending on different antennas and environments)
Battery Life	$\geq 3$ year (upload data once per hour)
Battery Voltage	3.6V
Battery Capacity	19Ah (Non-rechargeable)
IP Rating	IP66
UV Resistance	anti-aging (from rain/sun exposure): UL746C F1
Enclosure Material	PC
Operating Temperature	-40 °C to +70 °C
Operating Humidity	0 to 100 %RH (non-condensing)
Device Weight	326g

### Installation

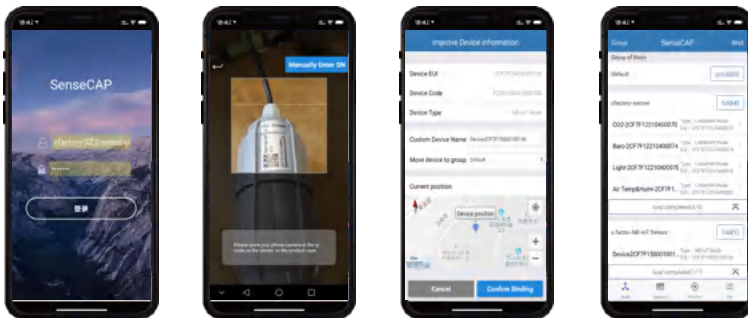
Please refer to the user manual for more details.



### Certification



## SenseCAP Application



SenseCAP App is used to bind devices to your account and check device information.

Download Application:

For iOS, please search for "SenseCAP" in the App Store and download.

For Android, please download SenseCAP Application from:

<http://sensecap-app-download.seeed.cn>



iOS



Android

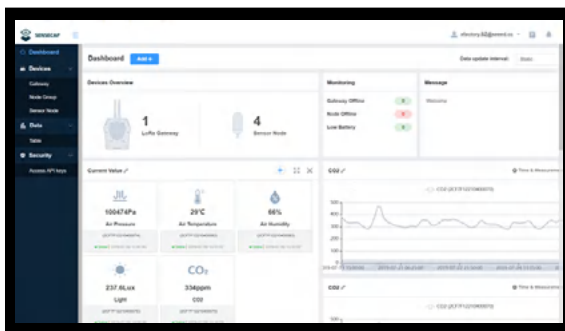
## SenseCAP Portal

SenseCAP Portal is a web-based platform which enables

- Device management
- Data management
- API Access Key management

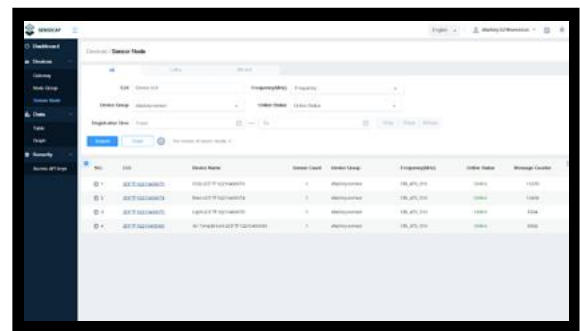
Visit SenseCAP Portal: <https://sensecap.seeed.cc>

For more info, please visit: <https://solution.seeedstudio.com/product/sensecap>



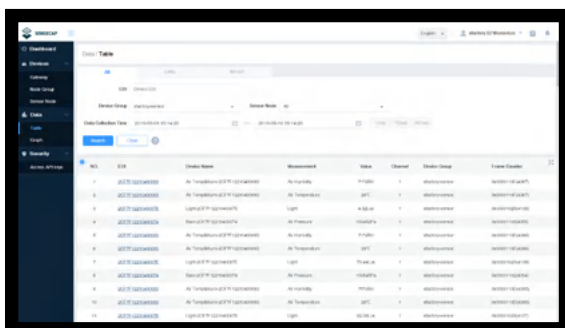
**Dashboard**

Including Device Overview, Data Upload Interval, Announcement, Scene Data, and Data Chart, etc.



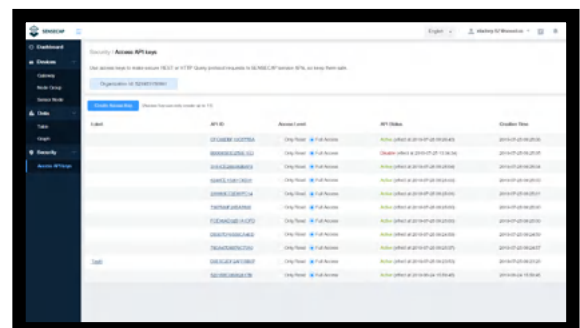
**Device Management**

Manage SenseCAP devices



**Data Management**

Manage data, including Data Table and Graph section, providing methods to search for data.



**Access Key Management**

Manage Access Key (to access API service), including: Key Create, Key Update, and Key Check.

# Application Programming Interface (API) Instructions

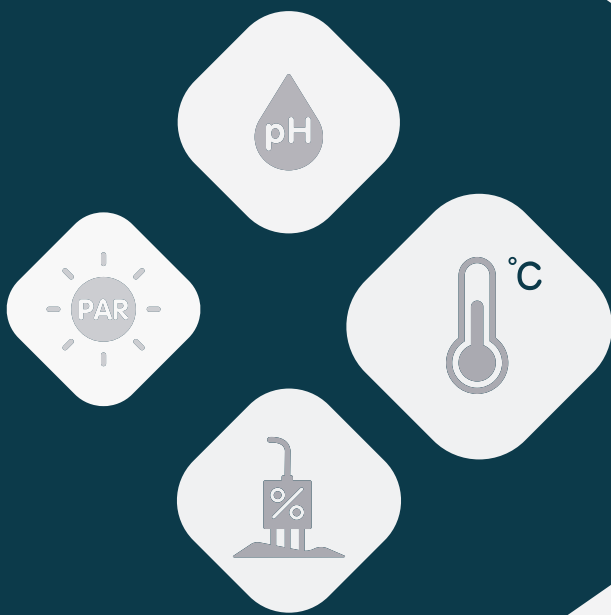
SenseCAP also provides API to support further development.  
Please visit this link for more info: <https://sensecap-docs.seeed.cc>

The screenshot shows the 'SenseCAP API Introduction' page. On the left is a sidebar with a navigation menu containing: 'SenseCAP API Introduction' (selected), 'HTTP API', 'HTTP API Quickstart', 'HTTP API Access Guide', 'HTTP API Reference', 'DATA OPENSTREAM API', 'Data OpenStream API Quickstart', 'Data OpenStream API Reference', 'APPENDIX', 'List of Sensor Types', and 'List of Measurement IDs'. The main content area is titled 'SenseCAP API Introduction' and contains text explaining the API's purpose and its two types: HTTP API and Data OpenStream API. It also includes a 'Next - HTTP API' button with a right arrow, a 'Last updated 11 months ago' timestamp, and a 'WAS THIS PAGE HELPFUL?' feedback section with three icons.

## SenseCAP Tools

SenseCAP provides a config tool to modify Sensor parameters like Device EUI, AppKey, data upload interval etc. For more details, please visit <https://github.com/Seeed-Solution/SenseCAP-Node-Configuration-Tool/releases>

The screenshot displays the 'SenseCAP Node Configuration Tool' window. It features a menu bar (File, Edit, View, Window) and a toolbar with a 'DISCONNECT' button. The main configuration area includes fields for: 'Serial Port' (COM5), 'Device Type' (LoRaWAN), 'Device EUI' (2CF7F12010700054), 'App EUI' (8000000000000006), 'App Key' (00E1B64631F61009125EBDE00EF861C7), 'Data Interval' (10 minutes), 'Battery' (100%), 'Hardware Version' (V1.0), and 'Software Version' (V3.1). Below these are 'READ', 'WRITE', and 'UPDATE FW' buttons. On the right is a terminal window showing the 'SenseCAP' logo and a list of commands: '# Welcome to SenseCAP console command-line tool', '# You can change the device configuration by commands', '# Command description', '# [r] Read the current device configuration', '# [i] Set the data update interval in minutes', '# [d] Set the Device EUI', '# [a] Set the App EUI', '# [k] Set the App Key', '# [u] Upgrade the firmware', and '# [h] Return to console center'. The bottom of the window shows a US flag, the 'SENSECAP' logo, and the version 'v1.0.1'.



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