

**ZS-ATH01**

**Air Temperature Humidity Sensor**





## Air Temperature Humidity Sensor ZS-ATH01

The Zensmart LoRaWAN Air Temperature and Humidity Sensor measures temperature from -40°C to 85°C and humidity from 0% to 100% RH. Its LoRaWAN and IP67 design ensure reliability, low power consumption, and long transmission range. Battery-powered, it's easy to install and maintain.

The ZenoSmart LoRaWAN Air Temperature and Humidity Sensor provides data transmission by inserting a battery and probe. Data is monitored via a gateway or IoT server, and the transmission interval can be adjusted. Its low power consumption simplifies management of greenhouses and remote areas, improving plant productivity.

<b>Communication Range</b>	2500m <sup>1</sup>
<b>Sensor Feature</b>	Air Temperature and Relative Humidity Measurement
<b>Power</b>	3.6V 19000mAh
<b>Frequencies</b>	EU433 – KR920 – US915 /EU868 – AS923 – AU915
<b>Connections</b>	<sup>2</sup>
<b>Monitoring</b>	Web and Mobile-Based Remote Monitoring
<b>Dimension</b>	(L×W×H): 154 × 67 × 60

1. The range may vary depending on the gateway antenna gain and geographic conditions.
2. Bluetooth is offered as an optional feature based on preference.



You can manage your air temperature and humidity monitoring through our web management platform at [zenosmart.com](http://zenosmart.com) or via your own servers.

## Installation

The air temperature and humidity sensor connects to the nearest LoRaWAN gateway upon battery installation and begins transmitting data to the IoT server. Its operating temperature ranges from -20°C to 60°C.

## Usage

The sensor is 100% waterproof with an IP67 rating and offers up to 10 years of battery life using a 3.6V 19Ah lithium battery. Depending on installation height, antenna power, and geographic conditions, it provides a LoRaWAN wireless communication range of up to 2.5 km.