



# Orbit 3

Wireless Temperature and Humidity sensor for Ambient Climate Monitoring



## Overview

Orbit 3 is a wireless sensor for ambient temperature and humidity monitoring.

Install the Orbit 3 at a suitable location and it will wirelessly transmit temperature and humidity readings continuously.

The Orbit 3 uses Sigfox, the world's largest IoT network, which offers a longer range than WiFi and Bluetooth. The data is transmitted to the cloud through nearby Sigfox antennas or gateways.

The real-time data is available in Sensohive App (web portal) and you can access it from anywhere.

### Features

- Accurate ambient sensor
- Long-range wireless data communication
- Low power consumption for extensive usage
- Replaceable and universal AA batteries
- Silicone cover for easy installation (accessory)

### Benefits

- Real-time insight into ambient conditions
- Remote monitoring from any device with internet
- Easy installation and use
- Cloud software for easy reporting and data export

# Specifications

## Temperature Measurements

Range	-30 to 50 °C (-22 to 122 °F)
Tolerance	±0.3 °C (±0.54 °F)
Resolution	±0.1 °C (±0.18 °F)

## Humidity Measurements

Range	0 to 100 %RH <sup>1</sup>
Tolerance	±2 %RH <sup>1</sup>
Resolution	±0.1 %RH

## Data Transmissions

Interval	Measurements: Once every hour <sup>2</sup> Downlink: Once every week
Measurement	Four readings per transmissions

Tap Functionality (Manual transmission)	Yes
Network	Sigfox

Radio Zones	RC1, RC2, RC7 (Sigfox Ready, Class 0) RC4
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Wireless Signal Range (using Sigfox Gateway)	Up to 3 km (1.86 mi) <sup>3</sup>
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<b>Certifications</b>	CE, Radio Equipment Directive (RED), RoHS
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## Use and Storage

Temperature	-30 to 50 °C (-22 to 122 °F)
Humidity	0 to 100 %RH <sup>1</sup>
Ideal Storage Conditions	Indoor, 20 to 30 °C (68 to 86 °F)

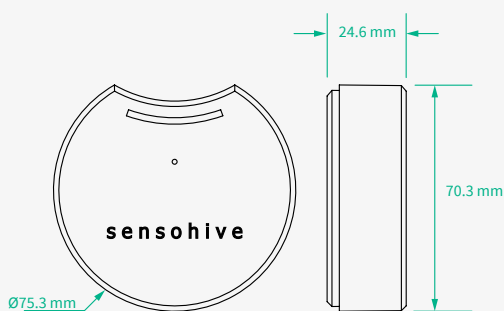
## Mechanical Specifications

Dimensions (Ø x H)	75.3 x 24.6 mm (2.96 x 0.97 in)
Weight	52 g (1.83 oz)
Materials	Body: ABS plastic (grey)
Battery Type	2 x AA, 1.5 V alkaline/lithium <sup>4</sup>
LED	Single color green LED
IP Rating	IP33 <sup>5</sup>

<b>Compatible Software</b>	Maturix® Precast Sensohive App API Direct integration (hardware-only)
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Part No.	Models
20124-1	Orbit 3 (Sigfox RC1)
20124-2	Orbit 3 (Sigfox RC2)
20124-4	Orbit 3 (Sigfox RC4)
20124-7	Orbit 3 (Sigfox RC7)
33020	Black Silicone Mounting Cover for Orbit 3
33030	Orange Silicone Mounting Cover for Orbit 3

<b>HS Code</b>	8517 6990 00
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<sup>1</sup>Long-term exposure to conditions outside normal humidity range and tolerance level may accelerate ageing.

<sup>2</sup>Can be adjusted. Learn more about changing the intervals: [sensohive.com/orbit-3/transmission](https://sensohive.com/orbit-3/transmission).

<sup>3</sup>Depending on environment. Learn more: [sensohive.com/sigfox](https://sensohive.com/sigfox).

<sup>4</sup>Not included by default.

<sup>5</sup>For outside installation, mount the device under a roof, cover, or shield to protect it from water ingress and direct sunlight.