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

Maturix® Ambient Climate Monitoring

Maturix combines wireless sensors, smart technology and user-friendly software into a powerful monitoring tool. The system provides in-depth insights into real-time temperature and humidity.

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 [1]
Tolerance	±2 %RH [1]
Resolution	±0.5 %RH

Data Transmissions

Interval	Measurements: Once every hour [2] 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
Wireless Signal Range (using Sigfox Gateway)	Up to 3 km (1.86 mi) [3]

Certifications	CE, Radio Equipment Directive (RED), RoHS

Use and Storage

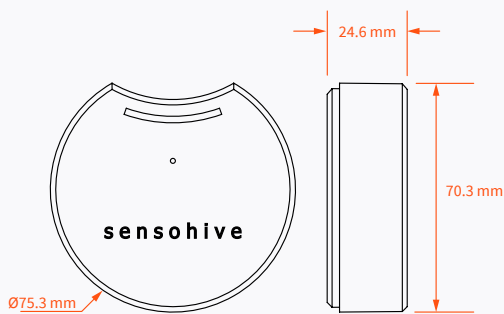|	
Temperature	-30 to 50 °C (-22 to 122 °F)
Humidity	0 to 80 %RH [1]
Ideal Storage Conditions	Indoor, 20 to 30 °C (68 to 86 °F)

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 [4]
LED	Single color green LED
IP Rating	IP33 [5]

Compatible Software	Maturix® Precast Sensohive App API Direct integration (hardware-only)

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

HS Code	8517 6990 00

[1] Long-term exposure to conditions outside normal humidity range and tolerance level may accelerate ageing. Learn more: **maturix.com/drift**.
[2] Can be adjusted. Learn more about changing the intervals: **maturix.com/transmissions**.
[3] Depending on environment. Learn more: **maturix.com/sigfox**.
[4] Not included by default.
[5] For outside installation, mount the device under a roof, cover, or shield to protect it from water ingress and direct sunlight.