

sensohive



Orbit 3

Wireless temperature and humidity sensor

The wireless temperature and humidity sensor measures the air temperature and humidity in the center hole in the front of the sensor.

Between the sensor element and air around the sensor is a IP67 filter to cover and protect the sensor element in best possible way.

The sensor transmits data using the Sigfox-network
sensohive.com/sensors/orbit3

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Information in this datasheet is based on specifications believed correct at the time of publication. The right is reserved to make changes as design and general improvements are introduced.

Features

- ± 0.3 °C and $\pm 2\%$ RH accuracy
- Replaceable batteries ¹
- Robust design
- Tap functionality for manual update
- Multiple mounting options

Advantages

- Easy installation and activation
- Versatile use
- Maintenance free
- Low total cost of ownership
- Globally connected ²

Configuration Options

The Orbit 3 is preconfigured with default settings: Data is transmitted to the cloud every 60 minutes and includes four measurements per transmission, which gives a sample rate of every 15 minutes.

You can change the transmission interval to your preferences. Settings are automatically updated once a week - or they can be updated manually by tapping on the device four consecutive times.

Sensohive App

You can easily access all data from your sensors using the Sensohive web application.

Sensohive App features:

- View and export data
- Setup notification alarms
- Setup radio silence alarm
- Locate device (Sigfox Geolocation)
- Change transmission interval

More info: sensohive.com/app

¹ Requires 2 x AA, 1.5V, alkaline or lithium. Not included.

² Global connection refers to the area covered by Sigfox. Local requirements, legislation, and infrastructures can affect the network availability. Updated outdoor coverage: sigfox.com

Specifications

Sensors	Temperature (Internal) Humidity (Internal)
Tolerances	± 0.3 °C and $\pm 2\%$ RH
Resolution	0.1 °C and 0.5% RH
Measurement Range	-30 to 50 °C
Operating Temperature	-30 to 50 °C
Operating Humidity	0 to 100% RH ³
Transmission Interval	Every 60 min (adjustable)
Measurement Interval	Four times per transmission
Battery Type	2 x AA, 1.5V, alkaline or lithium ¹
Battery Lifetime	Up to 5 years ⁴
Waterproof	No
Tap Functionality	Yes
Network	Sigfox
Radio Zones	RC1, RC2, RC4 ⁵
Material Enclosure	ABS plastic (FDA approved)
Dimensions	75 x 24 mm (Ø x H)
Weight	52g (without batteries)
Certifications	CE Sigfox Ready, Class 0 (Best) Radio Equipment Directive (RED) RoHS
Data Access & Analysis	Sensohive App API Direct integration (hardware-only)

³ Long-term exposure to conditions outside normal humidity range (20-80% RH) and prolonged exposure to extreme conditions may accelerate ageing.

⁴ Battery life depends on frequency of transmissions, operating temperature, storage temperature, and quality of the batteries.

⁵ RC1 and RC2 are Sigfox Ready certified with Class 0. RC4 is pending certification and are available as samples.