

# 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, so you do not have to make any local installation of Wi-Fi, gateways/masterbox or similar setup.

[www.sensohive.com/sensors/orbit3](http://www.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

- No use of local gateway or installations
- $\pm 0,3$  °C and  $\pm 2\%$  RH accuracy
- Touch functionality
- Long battery lifetime
- Robust design

### Advantages

- Easy installation and activation
- Versatile use
- Maintenance free
- Low total cost of ownership
- Globally connected <sup>1</sup>

### Configuration Options

The Orbit 3 Sensor comes preconfigured with default settings. The Orbit 3 will as standard measure every 7.5 min. and transmit data to the cloud every 30 min.

These settings will be possible to change through the Sensohive App. The sensor will update the settings at least once a week in auto-mode or force updated through tapping 4 times on the sensor. Then the sensor will enter an update mode, where all settings will be updated to the settings you have set in the Sensohive App for the specific sensor.

Through the Sensohive App it is possible to change following settings:

- Sample rate
- Transmitting rate
- Warning zone
- Alarm zone

<sup>1</sup>Global connection refers to the area covered by Sigfox. Local requirements, legislation, and infrastructures can affect the network availability. Updated outdoor coverage: [www.sigfox.com](http://www.sigfox.com)

### Specifications

<b>Sensors</b>	Temperature (Internal) Humidity (Internal) Accelerometer, 3-axis
<b>Tolerances</b>	$\pm 0.3$ °C and $\pm 2\%$ RH
<b>Resolution</b>	0.1 and 0.5
<b>Measurement Range</b>	-30 to 50 °C
<b>Operating Temperature</b>	-30 to 50 °C
<b>Operating Humidity</b>	0 to 100% RH <sup>2</sup>
<b>Measurement Interval</b>	Every 7.5 min (adjustable)
<b>Transmission Interval</b>	Every 30 min (adjustable)
<b>Battery Type</b>	Li-SOCl <sub>2</sub> , not replaceable 3.6 V 5.400 mAh
<b>Battery Lifetime</b>	Up to 10 years <sup>3</sup>
<b>Tap Functionality</b>	Yes
<b>Network</b>	Sigfox
<b>Radio Zones</b>	RC1, RC2, RC4 <sup>4</sup>
<b>Material Enclosure</b>	ABS plastic (FDA approved)
<b>Dimensions</b>	75 x 23 mm (Ø x H)
<b>Weight</b>	82g
<b>Certifications</b>	CE Sigfox Ready, Class 0 (Best) Radio Equipment Directive (RED) RoHS

<sup>2</sup> Long-term exposure to conditions outside normal humidity range (20-80% RH) and prolonged exposure to extreme conditions may accelerate ageing.

<sup>3</sup> Battery life depends on mode, operating temperature, and frequency of measurements and transmissions. Standard configuration gives a lifetime of 4-5 years (estimated based on tests and simulations).

<sup>4</sup> RC1 and RC2 are Sigfox Ready certified with Class 0. RC4 is pending certification and are currently available as samples.