

# Sens'it 3

Six sensors, one button, so many possibilities



- Multi-sensor
- Rechargeable
- Water resistant
- Reprogrammable

**Sens'it 3** is an electronic object with several sensors and the ability to communicate on the Sigfox network. This makes it suitable for IoT uses.

The included sensors and actuators are: thermometer, hygrometer, light meter, accelerometer, magnetometer, reed switch, and button. The Sens'it can be configured to communicate on the Sigfox RC1, RC2, RC3, or RC4.

It is fully reconfigurable and therefore can be used for specific behaviors. A dedicated Software Development Kit (SDK) is available on [www.sensit.io](http://www.sensit.io). Thanks to this SDK, developers can create their own firmware. They can rewrite the Sens'it behavior and include the device in a custom end-to-end solution, combining it with an in-house online platform for tailored data analysis.

**Sens'it Discovery** is the end-to-end solution conceived by Sigfox using Sens'it 3. It combines the Sens'it 3 device with the [sensit.io](http://sensit.io) platform, along with Sigfox connectivity. When used as part of the Sens'it Discovery solution, the Sens'it 3 device gives access to 5 distinct active modes:



Standby mode

1. Temperature and humidity monitoring
2. Light monitoring
3. Door opening detection
4. Vibration detection
5. Magnet detection

Find more information on Sens'it and Sens'it Discovery including the devkit activation procedure on [www.sensit.io](http://www.sensit.io)

Sens'it model	3.1	3.2	3.3	3.4
<b>RADIO TRANSMISSION CHARACTERISTICS</b>				
Sigfox Ready class	0U	0U	0U	0U
Range of supported operating frequencies (*)	868 to 869.7 MHz	902 to 908 MHz	923.2 MHz (TX) 922.2 MHz (RX)	920 to 925 MHz
Transmit Power emission	14 dBm ERP	22 dBm ERP	10 dBm ERP	22 dBm ERP
<b>INTERFACES</b>				
LEDs	3 (White, Red, RGB)			
Port	Micro-USB			
Control	Central button			
<b>MECHANICAL AND ENVIRONMENTAL</b>				
Product dimensions	52 x 82 x 15 mm (2 x 3.2 x 0.6 in)			
Product weight	50 g (1.8 oz)			
Operating temperature	-10°C to 50°C			
Charging temperature	0°C to 40°C			
Operating relative humidity	30% to 90%			
Protection	IP54			
RoHS compliance	RoHS 3			
<b>SENSORS</b>				
Thermometer (HTS221)	Measuring range -40 to 120°C / Accuracy $\pm 0.5^{\circ}\text{C}$			
Humidity (HTS221)	Measuring range 0 to 100 / Accuracy under review (TBC)			
Accelerometer (FXOS8700)	Measuring range $\pm 2, 4, 8$ g / Accuracy 0.244, 0.488, 0.976 mg			
Magnetometer (FXOS8700)	Measuring range $\pm 1200$ $\mu\text{T}$ / Sensitivity 0.1 $\mu\text{T}/\text{LSB}$			
Light (LTR329)	Measuring range 0.01 to 64K lux			
Reed switch (ILS CT10-1540-G4)	Operating range 10-40 AT			
<b>POWER</b>				
Battery	Rechargeable LiPo 250 mAh battery			
Autonomy	3 months in temperature mode, 1 frame per hour			
<b>COMPLIANCE</b>				
Safety	EN 60950-1; IEC 60950-1			
EMC	EN 301 489-3; EN 301 489-1			
		FCC Part 15 B; FCC 15.209		FCC Part 15 B; FCC 15.209
Radio	EN 300 220-2; EN 300 220-1	FCC part 15.247	ARIB STD-T108	FCC part 15.247

(\*) The maximum frequency range and power setting will vary by channel and according to individual country regulations. Refer to the regulatory groups table for more details.



# About Sigfox

Sigfox is the world's leading provider of connectivity for the Internet of Things (IoT). The company has built a global network to connect billions of devices to the Internet while consuming as little energy as possible, as simply as possible.

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