



**Product ID:** WiCube  
**Category:** Sensors

Fill level sensor for waste containers, based on coherent pulse radar. It allows the current fill level to be known, as well as geolocating the container and generating alerts related to it, such as collection warnings, fill thresholds, vandalism, etc.

## TECHNICAL SPECIFICATIONS

<b>CPU</b>	32 bits@8MHz microcontroller with 512K Flash and 192KB RAM
<b>Memory</b>	4MB for data storage and 128KB for configuration
<b>Real time clock</b>	Intern
<b>GNSS</b>	GPS/GLONASS/BDS/Galileo/QZSS
<b>Accelerometer</b>	3-axis, for detection of overturning, pick-up times, etc.
<b>Temperature</b>	Integrated temperature sensor
<b>Reed Switch</b>	Magnetic sensor for commissioning as well as reconfiguration of the device without opening the device enclosure
<b>Configuration</b>	Via desktop pc application, and/or config.odin.es
<b>Sampling frequency</b>	3600 to 86400 seconds
<b>Periodicity of dispatch</b>	60 to 1440 minutes
<b>protocol/format for data transmission</b>	MQTT / JSON
<b>Communications</b>	NB-IoT

## SENSOR

<b>Type</b>	Coherent pulse radar
<b>Measuring distance</b>	0 to 7000 mm
<b>Volume measurement</b>	0.08m <sup>3</sup> - 24m <sup>3</sup>

## SUPPLY CIRCUIT

<b>Supply voltage</b>	3.6V/13Ah by lithium battery
<b>Maximum consumption</b>	45uA in standby, 60mA in transmission
<b>Autonomy</b>	Up to 10 years of autonomy*

\*Actual battery life may vary depending on different parameters such as: frequency of reading and sending, level of coverage, operating temperature, etc. By default, 2 measurements and transmissions per day (every 12h).

## ENVIRONMENTAL CONDITIONS

<b>Working temperature</b>	-20° ~ 65°C
<b>Humidity</b>	5% ~ 95% (without condensation)

## INFORMATION ABOUT ORDERS

<b>Minimum order</b>	1
<b>Order reference</b>	WiCube

## CONSTRUCTION FEATURES

<b>Dimensions</b>	130x90x40mm (W/H/D)
<b>Box material</b>	ABS plastic
<b>Installation type</b>	Superficial
<b>Degree of protection</b>	IP67
<b>Weight</b>	180g without battery 296g with battery

## CONSTRUCTION FEATURES

<b>Rules</b>	EN 61000-6-2:2019 EN 61000-6-3:2007 + A1:2011
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This product is compatible with RoHS (2011/65/UE)