



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

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

SENSOR

Type	Coherent pulse radar
Measuring distance	0 to 7000 mm
Volume measurement	0.08m ³ - 24m ³

SUPPLY CIRCUIT

Supply voltage	3.6V/13Ah by lithium battery
Maximum consumption	45uA in standby, 60mA in transmission
Autonomy	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

Working temperature	-20° ~ 85°C
Humidity	5% ~ 95% (without condensation)

INFORMATION ABOUT ORDERS

Minimum order	1
Order reference	WiCube

CONSTRUCTION FEATURES

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

CONSTRUCTION FEATURES

Rules	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)