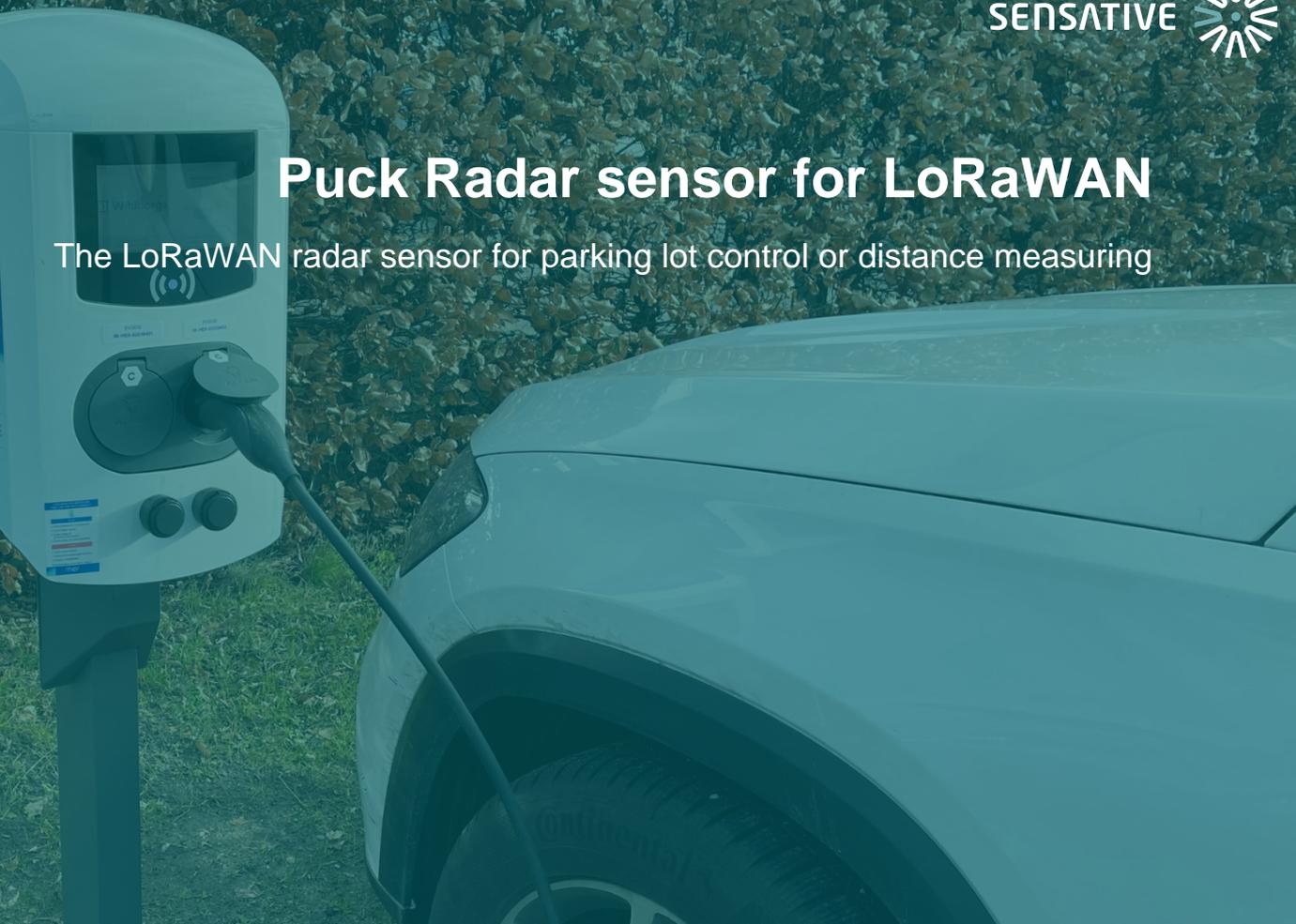


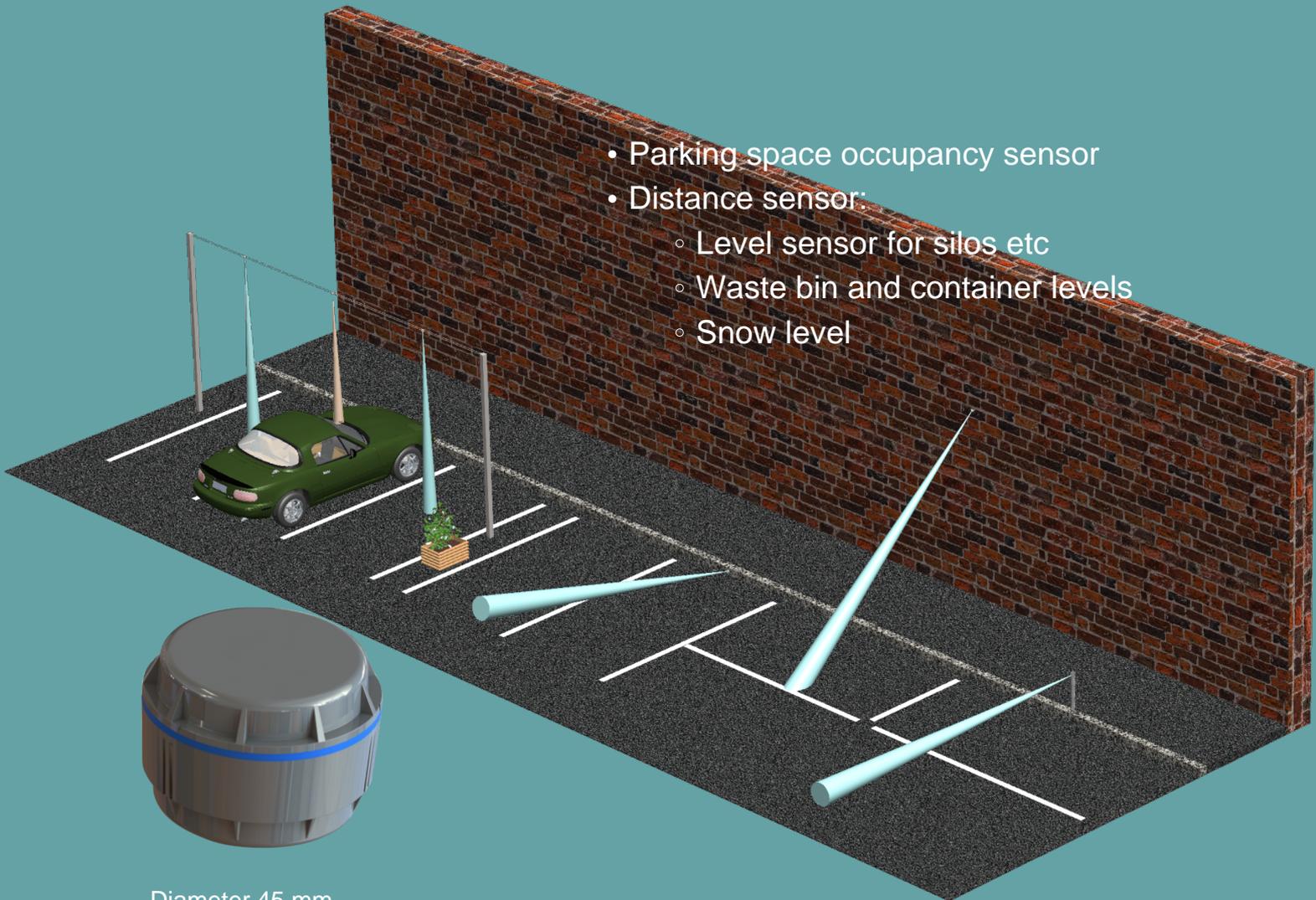
Puck Radar sensor for LoRaWAN

The LoRaWAN radar sensor for parking lot control or distance measuring

-  Webshop
-  Find a dealer
-  Web page
-  Documentation
-  Use cases



- Parking space occupancy sensor
- Distance sensor:
 - Level sensor for silos etc
 - Waste bin and container levels
 - Snow level



Diameter 45 mm
Height 30 mm

MOUNTING OPTIONS

(brackets not included)



in drilled hole



on wall



on pipe



in wells and containers

DESCRIPTION

PUCK RADAR LORAWAN

Puck Radar is an ultra-low power radar sensor designed for presence detection, distance measurement, and level monitoring across a wide range of applications. Using advanced radar technology, it measures reflected signals over distance and reports accurate data based on configurable parameters.

With a radar range of up to 6.8 meters and flexible algorithms, it can be adapted for applications such as parking detection, tank level monitoring, waste management, and snow depth measurement.

Built for demanding environments, Puck Radar features a sealed enclosure and robust design, enabling reliable operation in outdoor and industrial conditions.

TYPICAL USE CASES

- Parking occupancy detection
- Tank, silo, and septic level monitoring
- Waste container monitoring
- Snow depth measurement
- Distance and presence detection

KEY ADVANTAGES

- Radar-based sensing independent of light and environmental conditions
- Up to 6.8 meter detection range
- Configurable algorithms for multiple applications
- 10 years battery life for long-term operation
- Replaceable battery (2.1 Ah)
- Easy configuration via NFC using an Android smartphone
- Ruggedized design for outdoor use

CONDENSATION PROTECTION

Puck Radar is designed for sealed outdoor environments where condensation may occur.

The device includes a silica gel solution that absorbs internal moisture, combined with a temperature and humidity sensor that monitors the internal environment.

If moisture levels increase due to condensation, the sensor can trigger an alert indicating that the silica gel needs replacement.

RADAR CONFIGURATIONS

Puck Radar is available in different variants depending on beam angle:

- Standard housing (60° field of view)
- Narrow lens housing (10° field of view)

POSITIONING

Puck Radar supports Wi-Fi-based positioning by scanning nearby Wi-Fi MAC addresses, with location calculated via a cloud-based location service.

This enables positioning in indoor or GPS-denied environments.

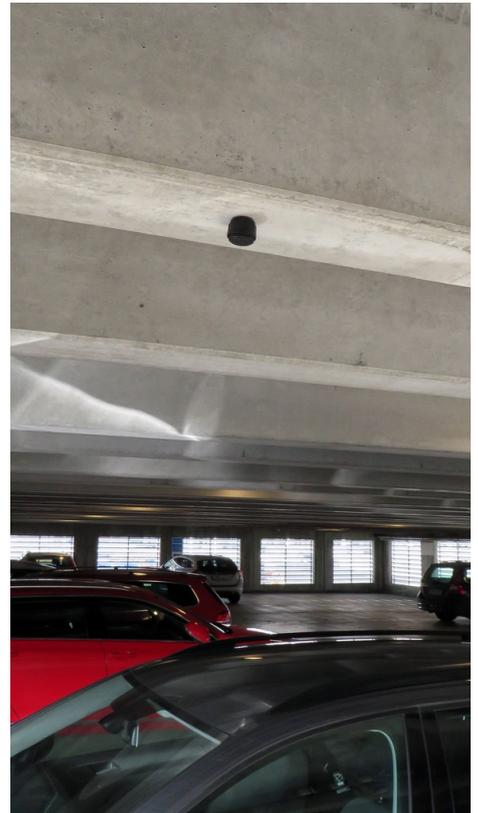
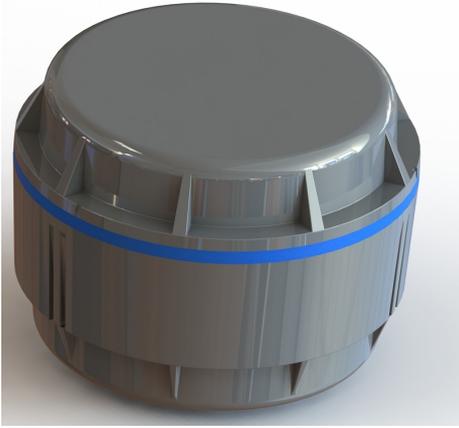
This functionality requires a compatible cloud service such as Sensative Yggio.

INSTALLATION

Puck Radar can be mounted using dedicated mounting plates, available as accessories.

Rev B, 2026-03-18

IMAGE GALLERY





Optional mounting bracket
sold separately
(not included with sensor)

SPECIFICATION

Application

Application Parking space monitoring, Filling level, Waste management, Distance measurements, Occupancy, Seat monitoring, Septic Tanks, Street wells

Benefits

Benefits No maintenance (10 years), Long-range (2 km), Sturdy & waterproof, High accuracy, Location-aware, Built-in data memory

In/Outdoor usage Indoor & Outdoor

Features

Sensor Radar 60 GHz, Temperature, Geolocation, Humidity, Humidity

Accessories Mounting kits

Configuration LoRaWAN OTAA, NFC

Geopositioning WIFI 2.4 GHz

Connectivity data

Frequency US (915 MHz) or EU868 - Europe 863-870 MHz

Protocols / Connectivity LoRaWAN, NFC

LoRaWAN version V 1.0.4

LoRaWAN class Class A

Sensor data

Radar beam Standard lens: +/- 60° beam (30 mm height) or Narrow Lens +/- 10°

Temperature accuracy ± 2 °C/ 3.6 °F @ 0-30 °C/32-86°F, +/- 0.2 °C

Sensor circuit Acconeer A111

Radar frequency 60 GHz

Radar range 0.2 - 6.8 m

Radar accuracy cm

Power supply

Powered by Lithium Thionyl Chloride battery, Replaceable battery, 2.1 Ah

Operating Conditions

IP Class 67

Operating range -30 - +80 °C

Mechanical data

Weight (g) 38 (Standard 60° lens), 43 (Narrow 30° lens)

Height (mm) 30 (standard lens), 45 (narrow lens)

Diameter (mm) 45

March 24, 2026 4:23 pm

PRODUCT SPECIFICATIONS; DISCLAIMER OF WARRANTIES.

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