

BrainyBins Ultra

The smart full detector for all types of bins and containers



- Operating costs will be reduced up to 50%
- Cost savings by optimising routes and hence fuel
- Filling status for waste bins and containers
- Emission reduction by optimising the routes
- Better service quality and waste disposal
- No overloaded waste containers

Precise reporting of waste containers with Ultrasonic sensor and wireless communication

BrainyBins Ultra is a fill level sensor that monitors the filling level in containers and waste bins. This is an IoT-solution where data is continuously sent via a Cloud server to the BrainyBins platform. BrainyBins collects, processes and analyses the data from all bins equipped with BrainyBins sensors.

The data is available via a clear and user-friendly app and a web-based platform. This information provides a better and data-driven basis for decision-making. The BrainyBins software even recommends emptying times and an optimised emptying routes. In addition, you also have access to an extensive collection of historical data and analysis reports.

BrainyBins Ultra is available in two versions

BrainyBins Ultra IA with internal antenna

BrainyBins Ultra sensors are used at recycling stations and in waste bins and containers placed in public spaces, on the beach, in the forest or in summer cottage colonies.

The BrainyBins Ultra sensors are also used in waste containers in city centers or at waste recycling stations in residential areas or apartment blocks.

BrainyBins Ultra EA with external antenna

The sensors are used in the same applications as BrainyBins Ultra IA, but where the container is made of metal, or in buried containers, silos, etc.



Data from full level detector

Filling level	Per cent
Detection from overturned containers	Alarm
Number of waste deliveries	Per day
Temperature measurement	°C
Battery level	Remaining battery lifetime
Number of measurements per day	3 (adjustable upon need)

Specifications

Sensor	Ultrasonic
Measurement range	10 cm – 500 cm
Cabinet	Water and dust resistant cabinet (IP67)
Material	ABS (recycelt plastic)
Measurements	128 mm x 86 mm x 45 mm (LxWxH)
Weight	Ca. 160 g (with batteries)
Operational temperature	-20°C to + 60°C
Battery lifetime	10 years (3 measurements per day)*
Communication standard	NB-IoT/Sigfox
Antenna	Internal or eksternal

* The actual battery lifetime will vary based on the number of network communications per day, climatic conditions, and the communication settings of the Internet provider.