

((SENSONEO))

RFID tags

Datasheet 2020

Sensoneo Asset Management solution enables you to **digitize your waste infrastructure**. It combines **RFID tags, Smart Waste Management System and Citizen App**. By tagging all bins and containers you identify and record all assets in a digital inventory in the Smart Waste Management System (Asset Management module). The solution **simplifies bin tracking, communication and invoicing, and restrains unauthorized use of bins**. A clear and accurate overview of all bin assets is the key and the very first step leading towards smart waste management.

Sensoneo offers 3 types of bin tags - **Smart Bin Tag, Smart Bin Sticker and Transponder (Plug)**. All tags have **RFID features** that ensure automatic **service verification and contactless bin recognition** providing access to bin details in the database using RFID reader.

Smart Bin Tag and Smart Bin Sticker provide also a visual identification by a **numerical code, bar code or QR code**. If you do not wish to use RFID reader or you do not have one (citizens) you can **access bin details via Citizen App** by scanning the code on the tag / sticker with a phone camera. For signed users, Citizen App offers features for asset mapping, manual service verification and requests for collection or maintenance. We also offer basic stickers without RFID and with QR / bar / numerical code for bins and trash bags.

Your waste infrastructure is digitalized in **Asset Management**, one of modules in the Smart Waste Management System, Sensoneo powerful cloud-based platform on MS Azure. Asset Management offers **bin inventory, a digital interactive map, tools for qualitative analysis of your waste infrastructure (bin distribution, capacity), maintenance records, collection records and an overview of citizen feedback**.

	RFID	Visual identification	Mounting
Smart Bin Tag	Yes	Numerical / Bar / QR code	3M Adhesive tape or riveting
Smart Bin Sticker	Yes	Numerical / Bar / QR code	Adhesive tape
Transponder (Plug)	Yes	/	Glued
Bin Sticker	/	Numerical / Bar / QR code	Adhesive tape
Trash Bag Sticker	/	Numerical / Bar / QR code	Adhesive tape

- **Smart bin tag**

The label is made of tough and durable plastic to withstand harsh conditions for several years. The chip can be attached to the container by sticking (the sticking mechanism is equipped with a label automatically) or by riveting, which ensures longer durability.

The barcode (or QR code) of the waste container is visibly located on the front of the chip. These codes will enable you to retrieve information from the database – container identification number, owner information, address where the container should be located, and a collection schedule – from any smart phone or tablet with an internet connection.

Simply scan the code into the Sensoneo application and you immediately get the available information. It is up to you to decide which information about the container is available to the public and which is restricted to “signed users only”. The built-in RFID functionality allows automatic service verification on pick-up.

RFID FREQUENCY	UHF 868 MHz
RFID EPC CODE	96 bit
MODE	READ (WRITE on demand)
BAR CODE TYPE	CODE 128
SIZE	100*25 mm*1.5 mm +hole 4 mm
MATERIAL	PVC plus lamination
LOGO	Customizable (+20 cents)
ADHESIVE MOUNTING	YES, 3 M
RIVET MOUNTING	YES



- **Transponder (plug)**

MATERIAL: Nylon + Epoxy filling
RFID FREQUENCY: UHF 868MHz
RFID EPC CODE: 96bit
SIZE: Dia 30 mm*15 mm, hole Dia: 5.5 mm
MODE: Read (WRITE on demand)



- **Smart bin sticker**

MATERIAL: white PET
CHIP: MONZA R6
SIZE: 55 x 25 mm
QR CODE: unique QR code (by specified QR code range) printing





**Sensoneo enables
a world that is
green, clean and
free of litter**

Sensoneo

www.sensoneo.com

info@sensoneo.com

HQ - SLOVAKIA

Stare Grunty 12

Bratislava, Slovakia