



RFID TAG FOR WASTE MANAGEMENT / BIN COLLECTION

Model: ETS-RT 14



IP67



Highly Durable



Outdoor Use



UHF/NFC



Water resistant



Chemical Proof



ID, Logo, Text etc



50 Years
Data Retention



Make in India

Description

ETS-RT 14 is used for household waste management application to optimise and track the collection of daily waste and thus potentially reduce the waste disposal cost and improve the process efficiency. The tags are attached outside the houses which are automatically scanned by the RFID readers installed on the waste collection vehicle or by the handheld mobile devices carried by the waste collectors. The tag reading marks the collection of waste from the respective location and transfers the data in real time to the municipal corporation/ government servers for monitoring and analysis.

The collected data is further used by agencies to optimise the collection routes and track bin locations. Our uniquely designed tag for waste management is 100% made in India and IP67 rated to ensure smooth functioning and withstanding in extreme outdoor conditions like rain, dust, heat and cold temp. The tag can be fixed on the concrete/metal base using nail/rivet method. ETS-RT 14 is available in NFC (Mifare 13.56 MHz) and UHF (865 - 928 MHz) frequency depending on the requirement of the project. The tag can be fully customized based for printing logo, QR Code, Tag chip ID etc.

ETS-RT 14 is currently being used at more than 2.75 lakh households across India for various smart city waste collection initiatives.

The tag is 100% at par with the norms laid down by the municipal corporations for waste collection process. We also offer end to end solution which includes RFID Handheld Readers and mobile software application for the RFID Based Waste Collection Solution.

ECO TRACK SYSTEMS

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Key Features

- Tried and tested product with proven performance. Currently being used by more than 2.75 lakh households and various waste collection agencies across India.
- High quality reinforced plastic material to withstand outdoor conditions. IP67
- Can be mount on metal or used off metal
- Option to Rivet.
- Available in NFC (13.56 MHz) or UHF (865 -928 MHz) frequency
- Customized high quality fade free laser printing for TAG ID, Logo, Text etc.
- Available in grey, white and black colour combinations.
- UHF Read Range: Up to 9 meters with fixed reader and 7 meters in handheld reader
- NFC Read Range: Can be read by any NFC enabled smart phone with a range of 5 cm.
- Chemical and water resistant.
- Data Retention warranty of 50 years

Specification

	NFC	UHF
Operating Frequency band	NFC 13.56MHz	UHF 865 MHz or 928 Mhz
Chip type	Mifare NFC	Alien Higgs-3
Communication ISO Protocol	ISO/IEC 14443-3 (Type A)	ISO/IEC 18000-6C, EPC C1 G2
Memory organisation	1kB 16 sectors, with 4 blocks per sector 64blocks, with 16 bytes per block	EPC-96 bits, extendible to 480bits TID - 96 bits unalterable &unique User memory - 512 bits Access password - 32 bits Kill password - 32 bits
Read Range	Upto 5 cm with NFC Enabled Smart Phone	Fixed Reader - Up to 9m Handheld Reader - Up to 7m
Data retention	50 Years	
Endurance cycle	100,000 Cycles	
Size	50mm x 80mm x 7mm	
Hole size	Dia 5mm	

Encasement	Engineering Plastic
Weight	18 gms
Color	Grey, Black, White
Quality Testing	100%
Ingress Protection	IP67
Operating Temperature	-25°C to +85°C
Storage Temperature	-25°C to +85°C
Application	On & Off metal both
Attachment/ mounting	M5 Screw or rivet
Resistance to salt water exposure	Yes
Resistance to lubricant exposure	Yes
Resistance to IPA & thinner	Yes
Encoding	Yes
Logo/Text/Barcode printing	Yes



Prospective Users



Waste Management



Bin Tracking


Household Waste
Collection

Municipal Corporation
/ Government

Smart City waste
management initiative

Waste Management/
Collection Agencies

Notice: Product specifications are subject to change without prior notice. / Model: ETS-RT 14 / Update Date : 08/12/2024

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