

DISPOSED WASTE DETECTION

With RFID tag reading and
data transmission via GPRS

The portable RFID reader is the ideal solution for recording the disposals made by users during door-to-door collection via the automatic identification of the container which is equipped with an RFID tag.

A technological solution in line with the provisions established by the Ministerial Decree - Environment 20/04/2017 which defines the criteria for creating Point Measurement Systems by Municipalities.

RFID READER

The portable RFID readers are used in continuous 'hands-free' mode during the nominal data acquisition which takes place naturally when the tag is approached, without the need to press any key.

By simply pressing a button, the operator can supplement the registration of the disposal with additional information:

- non-compliant waste;
- non-compliant filling level;
- wrong disposal day.

Light, user-friendly, with an intuitive interface, designed to limit interaction with the operator as much as possible and to guarantee maximum effectiveness in the collection area in gathering data that is useful for 'points pricing'.

The RFID reader stores up to 4,000 readings with GPS position and transmits data via Internet to the web system of the Operations Centre thanks to the integrated GPRS module.

The battery size ensures coverage of the entire shift. The RFID reader is also available in data collector version with data transfer via radio on local server.



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READER TECHNICAL FEATURES

- Portable UHF RFID reader with GPS/GPRS
- Rechargeable internal batteries
- Designed and manufactured in Italy
- "DATACOLLECTOR" function
- Wireless data downloading feature
- Impact resistant container, IP65, ultra-compact

Operating frequencies	865-868 MHz
Antennas	Integrated
Supported transponders	ISO18000-6C, EPC C1G2 da 16 a 128bit
Protection	IP65
Power Supply	Internal rechargeable batteries, non removable
Memory	up to 4,000 guaranteed transactions
Size	121 x 69 x 32mm
Indicators	Acoustic and Optical
Autonomy	Approximately 10 hours operating time with a 30 sec scan every minute
GNSS	GPS&GLONASS
GPS receiver	L1 1575.42 MHz C/A Code, GLONASS L1 1598.0625~1605.375 C/A Code
Frequency band	Quad-band 850/900/1800/1900 Mhz
GPRS connectivity	Multi-slot class 12 max 85.6Kbps (Downlink & Uplink)
Container	ABS + Cover in silicone rubber anti-fall protection
Weight	180g
Certification	Rohs, CE with current regulations EN 300 330 (Radio), EN 302 208 (RFID), EN 300 220 (SRD), EN 62311 (people exposure to electromagnetic waves), EN 301 489-1-3 (EMC compatibility), EN 60950-1 (safety regulations for the operator) EN 60529 (IP grading)

ReferencesInnovambiente: RFID reader code: ASJ42G



