

newsteo ID TAG

Radio ID tags to identify products or persons



DETECT IDENTIFY LOCATE

The wireless Newsteo TAG ID system is used to mark goods or people and thus to identify them by radio frequency, up to several hundred meters.

Functioning



Functioning is very simple: the person or the good is equipped with a self-powered TAG. This one communicates by radio its ID to a MARKER. The marker is then able to transmit by radio to a monitoring computer the identity of goods or persons around. Communication can also be done via GPRS.

Contrary to passive RFID Tags that require a "heavy" reception infrastructure, the Newsteo active RFID Tag solution allows high ranges with a very light infrastructure: a small whip antenna of less than 20 centimetres on the MARKER and an integrated antenna of 1 cm² on the TAG.

LOCALISATION

This same solution can also be completed by a localisation system:

- Outside, the TAG can be equipped with a GPS module that allows the transmission of GPS coordinates of the place where the good is
- Also, multiple Markers can be placed whether inside or outside a building, in order to know where the TAG is, as well as its hourly or daily path...

ASSETS

Reliable & Robust

- High radio range
- Power autonomy of several years
- Memory capacity of several MB for TAG customization, set before or after deployment.

- Compliant with extreme temperatures
- Customizable shape depending on attachment mode need and environmental context (IP68, biocompatibility, waterproofness, ATEX, etc. ...)

Easy to deploy

- Miniature antenna on the reception station
- Quick and simple installation
- Radio Diagnostic Tools (range, scan ...)



APPLICATIONS

- Identification and localisation of goods in a storage area or during transportation
- Identification solution of a fleet of cars/boats positioned in a parking/harbor
- Solution of sportive races timing
- Monitoring solution to ensure entrance/exit into a restricted area
- Identification of spares part in a machine
- Anti-theft system
- Turnover palettes management: alert on entry date

TECHNICAL SPECIFICATIONS

Operating temperature	-40°C ... +85°C
Radio transmission frequency	868 MHz
Signal range	30m to several hundred meters according to the type of antenna and the configuration
Type of battery	Battery selected according to product's life and size
Power autonomy	Several years (according to the battery and the transmission frequency)
Casing	Plastic box IP54 or polyurethane resin (IP68)
Size	Few square centimetres
Weight with battery	Few dozens of grams