

# Heavy Duty Tag ISO

ATEX-certified vehicle identification tag



## Key features:

- ✔ automatic vehicle identification
- ✔ identification up to 20 meters\* (66 feet)
- ✔ ATEX-certified (gas and dust)
- ✔ reliable under harsh environmental conditions
- ✔ robust mounting
- ✔ shock and vibration proof

The Heavy Duty Tag ISO is an ATEX-certified vehicle identification tag. Based on semi active RFID technology, the Heavy Duty Tag ISO is identified at distances up to 20 meters\* (66 feet) with Nedap's TRANSIT Ultimate reader.

As the Heavy Duty Tag ISO is weatherproof, it is ideal for applications that require reliable long-range identification in harsh environmental conditions. It can be used to identify trucks, trailers, containers, railway wagons, forklifts, straddle carriers and other industrial vehicles. Typical applications include advanced vehicle identification in the petrochemical, mining, transportation, logistics and security industry.

## Harsh environmental conditions

This Heavy Duty Tag ISO is shock and vibration proof, watertight, UV stable and chemical resistant. The intrinsically safe design of the tag is type approved for use in potentially explosive atmospheres, Zone 21 and Zone 22, as is certified by the certificate number KEMA 09ATEX0016 X.

## Container compatibility

The Heavy Duty Tag ISO complies with the ISO 10374 directive for RFID of freight containers. It is designed to be mounted in the corrugated pockets on the sides of the freight container. By mounting the Heavy Duty Tag ISO in these pockets, it is automatically protected to direct impact.

## Robust mounting

The Heavy Duty Tag ISO is mounted by means of screws, bolts or rivets on the exterior of the vehicle chassis. The tag can be directly mounted on a metal surface. Private cars allow hidden mounting behind the grill.


## Battery low indication

The Heavy Duty Tag can optionally be featured with a battery low indication. This indication is sent to the reader with the ID number. This function allows a timely replacement of the tags.

## Read Only programmed

The Heavy Duty Tag ISO is Read Only (R/O) programmed. It is default programmed with a specific security code and an unique tag ID number. The part number, tag ID number and production date are laser engraved onto the exterior of the tag.

*\* In combination with the TRANSIT Ultimate reader.  
The maximum read range depends on reader type,  
the installation and the environment.*

| Technical information   | Heavy Duty Tag ISO   |
|-------------------------|--|
| Part number             | 9875980 Heavy Duty Tag ISO   |
| Dimensions              | 170 x 60 x 20 mm (6.64 x 2.60 x 0.78 in)   |
| Color                   | Black, according to RAL 9005   |
| Weight                  | 125 g (4.4 oz)   |
| Protection class        | IP66 [approx. NEMA 6]  |
| Material                | ASA/PC   |
| Operating temperature   | -20 ... +80°C (-4.0 +176 °F)   |
| Storage temperature     | -20 ... +80°C (-4.0 +176 °F)   |
| Relative humidity       | 10% ... 93% relative humidity, non condensing  |
| Read range              | Up to 20 meters (66 feet) with TRANSIT Ultimate  |
| Operating frequency     | 2.45 GHz / 120 kHz   |
| Operating modes         | RO-A = read-only, always on<br>RO-A/b = read-only, always on, battery-low enabled  |
| Air interface           | Nedap proprietary encoding standard  |
| Battery                 | Built-in lithium battery with an expected lifetime of 10 years. The lifetime is not affected by the number of times the tag is read or by RF fields from other sources.  |
| Mounting                | Tamperproof mounting to the exterior of a vehicle by means of two M6 bolts, screws, rivets and/or 3M VHB pressure sensitive tape combined with Loctite sealant.  |
| Compatible readers      | 9840990 TRANSIT ATEX<br>9215689 TRANSIT Ultimate   |
| Standards               | ATEX certificate: KEMA 09ATEX0016 X<br>ATEX warning: electrostatic hazard: CLEAN WITH WET CLOTH ONLY<br>ATEX identification:  II 2 GD Ex ia IIC T4 / Ex iaD 21 IP66 T 135 °C<br>CE, FCC, IC, UKCA, ACMA, R-N2 |
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