



identiFUEL™ Vehicle Tags



PASSIVE LF RFID TAGS FOR UNIQUE VEHICLE IDENTIFICATION

- Uniquely identifies the vehicle and required fuel type
- Optionally self-destructs when removed
- Multiple form factors suit different vehicle models

The HID Global identiFUEL™ Vehicle Tags are maintenance-free passive low-frequency (LF) RFID tags. Designed to be mounted next to most industrial vehicle fuel inlets, the tags wirelessly identify the vehicle and fuel type required when used with a corresponding Fuel Management System (FMS).

When a vehicle arrives at a fueling station equipped with identiFUEL Nozzle Unit reader, the unique ID of the Vehicle Tag is read by the Nozzle Unit and reported back to the FMS. The FMS decides how much fuel to dispense and also creates a corresponding log entry of transaction and authorized vehicle for reporting.

The tags are programmed to store vehicle fuel requirements to prevent fuel contamination in order to avoid incidents, such as accidentally mixing Petrol with Diesel fuel.

identiFUEL Vehicle Tags are both water and fuel-proof and are designed to withstand typical conditions when mounted on consumer and commercial fleet or construction vehicles.

The tags feature a mechanical anti-tamper design. If the tag is removed after installation, it is immediately destroyed. This prevents the tag from being potentially re-used on another vehicle.

Vehicle Tags are the easiest and most cost effective way to identify vehicles to an FMS when no on-board identiFUEL Vehicle Units are used. For enhanced data analysis, the optional Vehicle Units can provide a unique vehicle ID along with additional information like driver ID, distance driven or engine running times to the FMS.

KEY TECHNOLOGY HIGHLIGHTS:

- Various rugged form factors
- Reports vehicle ID and fuel type to identiFUEL Nozzle Unit
- Optional tamper protected models that self-destruct when removed
- Easy and durable affixation via sticker or screw
- ATEX / IECEx compliant
- 125 kHz, programmable RFID tags

TYPICAL APPLICATION AREAS:

- Fueling stations for:
- Construction vehicles
 - Trucks
 - Bus coaches
 - Any other commercial fleet vehicles

SPECIFICATIONS

identiFUEL™ Vehicle Tag

| | Block | Wing | Cap | Disc |
|-------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| |  |  |  |  |
| Base Model Number | HBT903-1-0-NN-04 | FVT900-1-0-NN-00 | HBT900-1-0-NN-04 | HCC911-1-0-NN |
| ELECTRONIC | | | | |
| Operating Frequency | 125 kHz | | | |
| Chip Type | HITAG S | | | |
| Memory | 256 bit EEPROM | | | |
| Reading Distance | Up to 3.9 in (100 mm) with HBN903 Nozzle unit | Up to 2.7 in (70 mm) with HBN903 Nozzle unit | Up to 2.7 in (70 mm) with HBN903 Nozzle unit | Up to 3.1 in (80 mm) with HBN903 Nozzle unit |
| PHYSICAL | | | | |
| Dimensions | 2.0 × 1.18 × 0.6 in (52 × 30 × 14.5 mm) | 0.98 × 1.0 × 0.44 in (25 × 25.8 × 11.2 mm) | 1.18 × 0.67 × 0.79 in (30 × 17 × 20 mm) | 1.18 × 0.2 in (30 × 0.5 mm) |
| Mounting Method | Sticker 3M™ VHB™ 4950 | Sticker (TL-52BM-12) | 3.2 mm screw and epoxy | Sticker 3M 467MP |
| Affixes to | metal or non-metal | | | 4 mm spacer required for mount on steel |
| Housing Material | ABS | PA6 | PA6 - GF 15% | 3M Scotchcal 3650 Vinyl |
| Color | Black | | | |
| Weight | 1.02 oz (29 g) | 0.17 oz (4.7 g) | 0.30 oz (8.6 g) | 0.014 oz (0.4 g) |
| CHEMICAL AND MECHANICAL RESISTANCE | | | | |
| Water | IP67, 68° F (20° C), 1 m × 1 h | IP67, 68° F (20° C), 1 m × 1 h | N/A | IP68, 68° F (20° C), 1 m × 24 h |
| Withstands Exposure To | Fuel B, mineral oil, petroleum, salt mist, vegetable oil | | | |
| Environmental Test Conditions | 68° F (20° C), 100 h | | | |
| Vibration | IEC 68.2.6 [10 g, 10 to 2000 Hz, 3 axis, 2.5 h] | | | |
| Shock | IEC 68.2.29 [40 g, 18 ms, 6 axis, 2000 times] | | | |
| THERMAL | | | | |
| Storage | -40° to +176° F (-40° to +80° C), 1 × 1000 h | -13° to +140° F (-25° to +60° C), 1 × 1000 h | -40° to +176° F (-40° to +80° C), 1 × 1000 h | -40° to +248° F (-40° to +120° C), 1 × 1000 h |
| Operating | -13° to +140° F (-25° to +60° C) | | -4° to +140° F (-20° to +60° C) | -13° to +185° F (-25° to +85° C) |
| OTHER | | | | |
| Options | Built in mechanical anti-tamper mechanism, encoding, laser marking | | | |
| Quantity Per Box | 10 pcs. | 700 pcs. | 10 pcs. | 100 pcs. |
| Warranty | 1 year | | | |



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