



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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2018-02-20-hid-rfid-fa-identifuel-vehicle-tags-ds-en PLT-02831