

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.

Wing and Heavy Vehicle tags are the most commonly used form factors. They offer fixation options via sticker or glue as well as rivets. The heavy vehicle tag also supports fixation by metal bands around the fuel filler pipe of trucks. Tags may be laser engraved with serial number for additional optical identification.



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

identiFUEL™ Vehicle Tag					
	Heavy	Wing	Block	Cap	Disc
					
Part Number	HVT900-1-0-EX	FVT900-1-0-EX	HBT905-1-0-NN (anti-tamper) HBT906-1-0-EX (no anti-tamper)	HBT900-1-0-EX	HCC911-1-0-GB
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 3.1 in (80 mm) with HBN903 Nozzle unit
PHYSICAL					
Dimensions	1.49 x 1.12 x 0.79 in (37.8 x 28.5 x 20.0mm)	0.98 x 1.0 x 0.44 in (25 x 25.8 x 11.2 mm)	2.0 x 1.18 x 0.6 in (52 x 30 x 14.5 mm)	1.18 x 0.67 x 0.79 in (30 x 17 x 20 mm)	1.18 x 0.2 in (30 x 0.5 mm)
Mounting Method	Sticker and adhesive		Sticker 3M™ VHB™ 4950	3.2 mm screw and epoxy	Sticker 3M 467MP
Affixes to	metal or non-metal				
Housing Material	PA6		ABS	PA6 - GF 15%	3M Scotchcal 3650 Vinyl
Color	Black				
Weight	0.28 oz (8.0g)	0.17 oz (4.7 g)	1.02 oz (29 g)	0.30 oz (8.6 g)	0.014 oz (0.4 g)
CHEMICAL AND MECHANICAL RESISTANCE					
Water	IP68, 68° F (20° C), 2 m x 24 h	IP67, 68° F (20° C), 1 m x 1 h	IP67, 68° F (20° C), 1 m x 1 h	N/A	IP68, 68° F (20° C), 1 m x 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	-13° to +140° F (-25° to +60° C), 1 x 1000 h		-40° to +176° F (-40° to +80° C), 1 x 1000 h	-40° to +176° F (-40° to +80° C), 1 x 1000 h	-40° to +248° F (-40° to +120° C), 1 x 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 (Heavy Vehicle + Wing Tag only); All tags are ATEX compliant except HBT905-1-0-NN.				
Quantity Per Box	210 pcs.	700 pcs.	100 pcs.	100 pcs.	100 pcs.
Warranty	1 year				

For further information, contact tagsales@hidglobal.com



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 2022-04-19-idx-rfid-fa-identifuel-vehicle-tags-ds-en PLT-02831
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