HID®

identiFUEL™ Vehicle Unit

ON-BOARD VEHICLE UNITS FOR WIRELESS VEHICLE IDENTIFICATION AND STATISTICS

- Uniquely identifies the vehicle to the Fuel Management System
- Optionally reports distance driven and engine running times
- Built-in RFID reader for optional driver authentication

The HID Global identiFUEL™ Vehicle Unit is an automatic system designed for vehicle identification and data reporting relating to vehicle usage.

The Vehicle Unit is installed inside the managed vehicle and should be connected to the odometer and ignition for optimal functionality.

Whenever the vehicle arrives at a corresponding fueling station with identiFUEL™ Wireless Controller, the unique ID of the Vehicle Unit is reported along with the distance driven and engine running times. This allows the Fuel Management System (FMS) operator to closely monitor vehicle utilization remotely.

The Vehicle unit is available in a rugged aluminum or standard plastic housing.

Connected to a proper antenna, the Vehicle Unit may also act as a low-frequency (LF) reader to optionally read an RFID badge or keyfob of the driver and / or the RFID tag on the filling nozzle (if no identiFUEL Nozzle Unit reader is used).

Two LEDs provide visual confirmation when the Vehicle Unit is scanning for tags. The tag information is sent along with the vehicle unique ID and driving statistics to the FMS for reporting. It also enables the FMS to take more sophisticated business rule decisions if and how much fuel shall be dispersed based on driver and vehicle ID.

KEY TECHNOLOGY HIGHLIGHTS:

- Ultra-rugged and standard versions available
- Wireless reporting of vehicle data to fueling base station
- Reports distance driven per odometer pulser input
- Reports minutes of operation per vehicle ignition input
- Dual RFID readers for optional driver badge scanning
- Supports 12V and 24V automotive power supply

TYPICAL APPLICATION AREAS:

- Construction vehicles
- Trucks
- Bus coaches
- Any other commercial fleet vehicles

	Vehicle Unit	
	HVU 903	**HVU 904**
Base Model Number	HVU903-1-1-GB-XX	HVU904-1-1-GB-XX
ELECTRONIC		
Operating Frequency to Wireless Controller	433.92 MHz	
Operating Frequency to Driver Badge	125 kHz	
Power Supply Voltage	9 V to 16 V DC; 18 V to 26 V DC Automotive Transient Protection	
Power Supply Current	20 mA idle (no load on odometer supply) 40 mA active (no load on odometer supply)	
PHYSICAL		
Dimensions	3.1 × 4.5 × 1.2 in (80 × 116 × 32 mm)	3.2 × 4.5 × 1.3 in (83 × 114 × 34 mm)
Mounting Method	Screw	
Housing Material	Aluminum	Glass filled Nylon (PA6)
Color	Black	
Weight	10.3 oz (294 g)	4.5 oz (128 g)
CHEMICAL AND MECHANICAL RESISTANCE		
Water	IP62 - industrial environment. The HVU903 is sealed against water entry, however it is advisable that the connector terminals face downwards	IP50 - Designed to work in an indoor (dry) environment. The HVU904 is not sealed against water entry.
Humidity	0 to 95% relative humidity at +104° F (+40° C) non-condensing	
Drop Test	1 m (3.28 ft) drop (in packaging)	
THERMAL		
Storage	-40° to +176° F (-40° to +80° C)	
Operating	-13° to +140° F (-25° to +60° C)	
IGNITION INPUT		
Off	< 1.2 V	
On	> 6.4 V	
ODOMETER INPUT		
V/N Maximum	12 V	
V,H Minimum	> 2.5 V	
V,L Maximum	< 1.5 V	
Resource Maximum	1.8 k Ω	
Maximum Frequency	1.25 kHz	
Minimum Pulse	0.67 ms	
Calibration	Up to 22.000 pulses per km	
Counter Maximum	9.999.999 km or minutes	
RETROFIT ODOMETER SUPPLY		
Output Voltage	8 V ±5 %	
Output Current	60 mA maximum	
OTHER		
Standards	EN60950-1:2001, EN61000-4-3:2006, EN61000-4-6:1996+A1:2001, EN55022:1998+A1:2000+A2:2003, EN301489-1: V1.6.1, EN301489-3: V1.4.1, EN300220-2: V2.1.1, EN300330-2: V1.3.1	
User Interface	2 externally visible red LEDs	
Quantity Per Box	1 pc.	
Warranty	1 year	

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