

# identiFUEL™ Nozzle Unit Gen 3

## Universal low frequency RFID readers to fit on fueling nozzles

- Reads vehicle tag and identifies vehicle to the Fuel Management System
- Automatic activation and standby mode via motion sensor
- Supports a range of standard filling nozzles



The HID Global identiFUEL™ Nozzle Unit Gen 3 is a ruggedized, intrinsically safe RFID reader, used for Fueling Management Systems (FMS).

The unique ring-mount design allows durable fixation on a wide range of fuel filling nozzles. The unit turns a filling nozzle into an RFID reader that is automatically activated when the nozzle is tilted.

The Nozzle Unit is designed to work in combination with identiFUEL™ Vehicle Tags and Wireless Controllers as RFID front-end for Fuel Management Systems.

As soon as the Nozzle Unit detects a corresponding vehicle tag, the tag's unique ID and required fuel information is sent via an encrypted channel to the corresponding identiFUEL™ Wireless Controller.

The controller communicates to the FMS software, which decides if and how much fuel to dispense.

Once the nozzle is removed from the vehicle, and the vehicle tag can no longer be read, the Nozzle Unit notifies the FMS to stop the fuel dispersion.

The identiFUEL™ Nozzle Unit includes a dual-color led that indicates whether the unit is operational and a tag was successfully read. The rugged housing makes the Nozzle Unit resistant to typical fueling environments and rain water. Its tamper evident removal detection feature prevents potential fuel theft.




### KEY TECHNOLOGY HIGHLIGHTS:

- Simple installation on various existing nozzles
- Fully encapsulated rugged, antistatic and anti-tamper design
- ATEX / IECEx compliant
- Multi-year battery life
- Completely wireless operation incl. remote firmware update
- Supports custom branding
- Motion sensors to optimize battery life

### TYPICAL APPLICATION AREAS:

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

Nozzle Unit Gen 3	
FNU90x	
	
<b>Model Number</b>	FNU900
<b>Part Number</b>	FNU900-1-1-GB-XX
<b>ELECTRONIC</b>	
<b>Transmitter</b>	433.92 MHz
<b>RFID Reader (scanner)</b>	121kHz – 129kHz
<b>Data format</b>	EM4100/EM4582/HitagS - Bi-Phase/Manchester (modulation)
<b>Modulation</b>	OOK
<b>Data rate</b>	16.7 kbps
<b>Channels</b>	1
<b>Transmitter Duty Cycle</b>	50%
<b>Mode of operation</b>	Simplex
<b>Max RF output power</b>	10dBm
<b>Max. Distance to Wireless Controller</b>	328 ft (100 m)
<b>Power Supply</b>	2 x 2.5 Ah Lithium Thionyl Chloride Batteries
<b>Power Supply Lifetime</b>	~3 years battery life @ 200 minutes per day operation
<b>PHYSICAL</b>	
<b>Dimensions</b>	3.71 x 5.17 x 2.54 in (94.4 x 131.3 x 64.6 mm)
<b>Mounting Method</b>	Screw
<b>Fits to Nozzle Type</b>	Elaflex, SL1 (ER 242.1T, ER 242.1, ER 242.2), Elaflex, SL2 (Vapour Recovery, ER042.1), Elaflex, ZVA Adblue (HV, LV) OPW (OPW11, OPW7H) OPW, Avance Gas + Vapour Recovery OPW, Avance, Diesel OPW, 12VW Husky (1A, VIII)
<b>Housing Material</b>	Glass filled Nylon (PA6)
<b>Color</b>	Black
<b>Weight</b>	8.1 oz (230 g)
<b>CHEMICAL AND MECHANICAL RESISTANCE</b>	
<b>Water</b>	IP66
<b>Withstands Exposure To</b>	Fuel B, mineral oil, petroleum, salt mist, vegetable oil
<b>Environmental Test Conditions</b>	68° F (20° C), 100 h
<b>Humidity</b>	0 to 95% relative humidity at +104° F (+40° C) non-condensing
<b>Drop Test</b>	1 m (3.28 ft) drop (in packaging)
<b>THERMAL</b>	
<b>Storage</b>	-40° to +176° F (-40° to +80° C)
<b>Operating</b>	-13° to +140° F (-25° to +60° C)
<b>OTHER</b>	
<b>Certifications</b>	CE, FCC, RCM, ATEX/IECEX
<b>User Interface</b>	Bi-color indication LED
<b>Specialities</b>	Tamper removal detection; custom branding
<b>Quantity Per Box</b>	2 pcs.
<b>Warranty</b>	2 years

For further information, contact [tagsales@hidglobal.com](mailto:tagsales@hidglobal.com)



II 2G Ex ia IIB T4 Ga  
I M1 Ex ia I T4 Ma



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