

1 **EU - Type Examination Certificate**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: Ex Veritas 20 ATEX 0708 Issue: 0

4 Equipment: identiFuel™ Nozzle Unit or HID Fueling Automation Nozzle unit

5 Manufacturer: HID Global

6 Address: 47B Gillitts Road, Westmead, Durban, 3610, South Africa

7 This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 ExVeritas, Notified Body number 2804 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems for use in potentially explosive atmospheres given in Annex II to the Directive

9 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with the following Standards and section 16 of this certificate:


EN 60079-0: 2011+A11:2012
EN 60079-11: 2011

10 If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design, construction, examination and tests of the specified equipment or protective system in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment shall include the following:

 II 1G Ex ia IIB T4 Ga (Ta = -25°C to +60°C)

 I M1 Ex ia I Ma (Ta = -25°C to +60°C)



On behalf of ExVeritas

A handwritten signature in blue ink, appearing to read 'Sean Clarke'.

Sean Clarke CEng MSc FIET
Managing Director

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The certificate is only valid when it carries an original signature.

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Schedule

13 Description of Equipment or Protective System

The "identiFUEL" or "HID Fueling Automation" is an automatic vehicle recognition system that enables cardless and tagless refuelling of a large variety of vehicles. The driver only needs to put the nozzle into the filler neck and all the required data is transferred automatically during refuelling. The nozzle unit and the vehicle TAG can be used for diesel and petrol driven vehicles. The vehicle TAG is a contactless identification TAG. It works with a unidirectional transfer of a 64-bit identification number at the amplitude-modulated transfer frequency of 125 kHz. The vehicle TAG does not have its own power source; it draws its energy via the electromagnetic field induced into its antenna coil. The 125 kHz transmitter unit for reading the vehicle TAG is accommodated in the nozzle unit and also a 433 MHz transmitter that transfers the data to the receiver at the customer activated terminal to identify the vehicle and to enable the refuelling process. The nozzle unit is battery-operated and is moulded into the enclosure. The unit needs to be changed completely in the event of a flat battery.

Two lithium thionyl chloride batteries connected in parallel are used for the power supply. Two identical batteries of the types 3.6 V can be used in each case:

Lithium Thionyl Chloride SOCl ₂ Cell		Nominal Voltage	Temperature classification
Type	Manufacturer		
LS 14500 Ex	Saft	3.6 V	T4
XL-060F	XENO	3.6 V	T4
Tekcell SB-AA11	VITZROCELL	3.6 V	T4
ER14505	EVE	3.6 V	T4
LS14500	SAFT	3.6 V	T4

identiFUEL/HID Fueling Automation Nozzle Unit

HBN903-1-1-EX
HBN904-1-1-EX
HBN905-1-1-EX
FNU900-1-1-EX

identiFUEL/HID Fueling Automation Vehicle TAG's

HBT900-1-0-EX
HBT906-1-0-EX
FVT900-1-0-EX
HVT900-1-0-EX

Ratings:

Nozzle Unit: I_{max} = 340 mA P_{max} = 1.09 W U_{max} = 3.9V

Vehicle TAG's: no power source

Classification of installation and use: hand-held

Ingress protection: IP68

IdentiFUEL types covered by this approval (not for the certificate):

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IdentifUEL item number	Reference No.	Certification
HBN903-1-1-EX	2334.10 01 03 **	SEV 10 ATEX 0104 X IECEX SEV 10.0001 X
HBN904-1-1-EX	2334.10 01 30 00 respective 2336.10 01 30 **	
HBN905-1-1-EX	2334.10 01 40 **	
FNU900-1-1-EX	2334.10 01 50 **	
HBT900-1-0-EX	2334.10 02 *** ** respective 2336.10 02 ** ** 2334.10 05 ** ** respective 2336.10 05 ** **	
HBT906-1-0-EX	2334.10 02 09 ** respective 2336.10 02 09 ** 2334.10 05 09 ** respective 2336.10 02 09 **	
FVT900-XX	FVT907: 2334.10 02 20 ** respective 2336.10 02 20 ** 2334.10 05 20 ** respective 2336.10 05 20 ** FVT908: 2334.10 02 21 ** respective 2336.10 02 21 ** FVT909: 2334.10 02 22 ** respective 2336.10 02 22 **	
HVT EX	N/A	Refer to label.

14 Descriptive Documents

14.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R2877/A/1	01/10/2020	0	Initial issue of the Prime Certificate

14.2 Compliance Drawings:

Issue 0

Title:	Drawing No.:	Rev. Level:	Rev. Date:
BAT0000822 Assembly	DWG-01-0398	Ver 1	16/03/2011
HBN Antenna Coil	DWG-06-0109-04	Ver 5	23/10/2020
HBN004 Housing for HBN903-1-1-GB-XX	DWG-01-0356	Ver 2	16/11/2020
HBN007 Housing for HBN903-1-1-GB-XX	DWG-01-0395	Ver 2	16/11/2020
HBN008 Housing for HBN903-1-1-GB-XX	DWG-01-0400	Ver 2	16/11/2020
Antenna Assembly For FNU200-0-0-NN-00	DWG-06-0142	Ver 4	13/11/2020
Housing Cover For FNU-200-0-0-NN-00	DWG-01-0580	Ver 2	13/11/2020
Housing Base For FNU-200-0-0-NN-00	DWG-01-0579	Ver 1	22/05/2017
FNU900-1-1-EX Label	DWG-03-0242	Ver 5	21/10/2020
HBN903-1-1-EX Label	DWG-03-0239	Ver 5	21/10/2020
HBN904-1-1-EX Label	DWG-03-0240	Ver 5	21/10/2020
HBN905-1-1-EX Label	DWG-03-0241	Ver 5	21/10/2020
HBT900-1-0-EX	DSD-05-0007-01	Ver 4	16/11/2020
HBT900 Antenna Drawing	DWG-06-0099	Ver 2	30/11/2011
HBT906-1-1-EX Label	DWG-03-0243	Ver 4	16/11/2020
HBT906-1-0-Ex Data	DSD-08-0020	Ver 4	13/11/2020
HBT906-1-0-EX Coil	DWG-06-0101	Ver 2	13/11/2020
FNU User Manual	HID_identifUEL_FN U_Manual_en	30/10/2020	30/10/2020

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Title:	Drawing No.:	Rev. Level:	Rev. Date:
HBN User Manual	HID_identiFUEL_HB N_Manual_en	30/10/2020	30/10/2020
TAG User Manual	HID_identiFUEL_TA G_Manual_en	30/10/2020	30/10/2020
Universal Tag Label ATEX	DWG-03-0252	Ver 1	24/10/2020
Laser marking for Heavy Vehicle tag	ASD-03564	Ver A	05/11/2020
Heavy vehicle Tag	ASD-03269	Ver B	15/06/2020
Laser marking for Compact Fueling Vehicle tag	ASD-03557	Ver A	09/11/2020

15 Conditions of Certification

15.1 Special Conditions for Safe Use
None.

15.2 Conditions for Use
(Routine Tests)

16 Essential Health and Safety Requirements

Essential Health and Safety Requirements are addressed by the standards listed in section 9 and where required the report listed in section 14.1

The manufacturer shall inform the Notified Body of any modifications to the design of the product described by this schedule.

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