

# EU-TYPE EXAMINATION CERTIFICATE

## 1. EU-TYPE EXAMINATION CERTIFICATE

## 2. Equipment or Protective System Intended for use in 2014/34/EU

## 3. EU-Type Examination Certificate Number: ITS09ATEX26843X

## 4. Product: RFID Tags\*\*\*\*\*

## 5. Manufacturer: PVL TAG FACTORY (INDIA) PVT LIMITED

## 6. Address: A-80 Sector-57, Noida, District Gautam Budh Nagar, UP, India

## 7. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

## 8. Intertek Testing and Certification Limited, Notified Body Number 0359 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that the product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Intertek Report Ref. 09043070, Issue 1, dated December 2009, Intertek Report Ref. G100784285, Issue 1, dated July 2012, Intertek Report Ref. G101594654, Issue 1, dated March 2014, Intertek Report Ref. G101877411, Issue 1, dated November 2014, Intertek Report Ref. G102083005, Issue 1, dated April 2015 and Intertek Report Ref. 103710809LHD-001, Issue 1, dated February 2019.

## 9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2018, EN 60079-11:2012 & EN 60079-26:2015 except in respect of those requirements referred to at item 16 of the Schedule.

## 10. If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Safe Use specified in the Schedule to this certificate.

## 11. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

## 12. The marking of the product shall include the following:



II 1 G Ex ia IIC T5 Ga

-20°C ≤ Ta ≤ +70°C

*[Signature]*

Certification Officer:

P Moss

Date:

03-May-2019

In accordance with EC NOTICE TO STAKEHOLDERS WITHDRAWAL OF THE UNITED KINGDOM AND EU RULES IN THE FIELD OF INDUSTRIAL PRODUCTS dated 13 March 2020.

This issued certificate - Certificate No: ITS09ATEX26843X  
**Potentially Explosive Atmospheres Directive**

and supporting Technical Construction File underwent a legal transfer of new ownership by signed agreement between the named applicant on this certificate and the 3<sup>rd</sup> party bodies involved in the transfer from NB0359 to NB2575 on 14 December 2020

Name: Fabrizio Massei

Position: ATEX Certification Officer

Signature:

Date: 14 December 2020

## SCHEDULE:

EU-Type Examination Certificate Number:

ITS09ATEX26843X Issue 6

### 13. Description of Equipment or Protective System

THE RFID TAG is designed for tracking assets such as LPG cylinders and other objects using RFID technology.

The RFID Tag may be a Disc Tag, a Cylinder Tag, a Flexible Laundry Tag, Industrial Tag, M-Nano Tag, Bend-it Tag or M-Armada Tag.

Disc Tag Models:	101X1, 201X1, 102X1, 202X1, 103X1, 203X1, 303V1, 104X1, 204X1, 105X1, 205X1, 106X1, 206X1, 306V1, 108X1, 208X1, 107X1, 207X1, 109X1, 209X1, 309V1
Cylinder Tag Models:	110X1, 210X1
Industrial Tag Models:	315V1, 116X1, 216X1, 316V1, 122X1, 222X1, 322V1, 317V1, 318V1, 211X1, 311V1, 320V1, 144X1, 244X1, 344X1, 162X1, 262X1, 362X1
Flexible Laundry Tag Models:	221X1, 321V1
M-Nano Tag Models:	319V1
Bent-it Tag Models:	138X1, 238X1, 338X1
M-Armada Tag Models:	169X1, 269X1, 369X1

Note: Symbol "X" or "V" represents chip type.

The RFID Tag is a passive device and do not radiate on its own. It is activated by an external magnetic field generated by the antenna of a compatible reader through non-contact inductive coupling and then sends a response signal back to the reader.

The RFID Tag consists of a transponder containing a coil and an integrated circuit chip. The transponder is encapsulated within a plastic enclosure, which forms a free surface.

The enclosure provides a degree of protection of at least IP20 although due to its construction it is capable of providing a degree of protection of at least IP67.

The electrical parameters are:

Operating frequency  $f = 100 - 150 \text{ kHz}$ ,  $13 - 16 \text{ MHz}$ ,  $840 \text{ MHz} - 960 \text{ MHz}$

Maximum power  $P = 200 \text{ mW}$

## SCHEDULE:

EU-Type Examination Certificate Number:

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### 14. Report Number

Intertek Report Ref:	09043070	Issue:	1	Dated:	December 2009
Intertek Report Ref:	11051182	Issue:	1	Dated:	February 2011
Intertek Report Ref:	G100784295	Issue:	1	Dated:	July 2012
Intertek Report Ref:	G101594654	Issue:	1	Dated:	March 2014
Intertek Report Ref:	G101877411	Issue:	1	Dated:	November 2014
Intertek Report Ref:	G102083005	Issue:	1	Dated:	April 2015
Intertek Report Ref:	103710809LHD-001	Issue:	1	Dated:	February 2019

### 15. Special Conditions of Certification

#### (a). Specific Conditions of Safe Use

- The RFID Tag enclosures are plastic, which may present an electrostatic risk and hence should only be cleaned with damp cloth.

#### (b). Conditions of Manufacture -

- None

### 16. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report Ref: 103710809LHD-001 Issue: 1 Dated: February 2019

## SCHEDULE:

EU-Type Examination Certificate Number:

ITS09ATEX26843X Issue 6

### 17. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Assembly & Schematic – Disc Tag	Ex/001	-	28/09/09
Assembly & Schematic – Cylinder Tag	Ex/002	-	28/09/09
Assembly & Schematic – Industrial Tag	Ex/003	-	28/09/09
Assembly & Schematic – Flexible Laundry Tag	Ex/004	-	28/09/09
Assembly & Schematic – M-Nano Tag	Ex/005	-	28/09/09
Marking Plate	Ex/006	04	03/03/14
Assembly & Schematic – Industrial Tag – 1	Ex/007	-	06/01/11
Assembly & Schematic – Bend-it Tag	Ex/008	00	06/06/12
Assembly & Schematic – M-Armada Tag	Ex/011	00	06/03/14

### 18. Details of Certificate changes Issue 1

Intertek Project No. 11051182

To permit the following changes:

Addition of an alternate RFID Tag, Industrial Tag – 1.

Addition of certification labels where the tag size is small or very small.

Revised Drawings:

Title:	Drawing No.:	Rev. Level:	Date:
Marking Plate	Ex/006	01	14/01/11
Assembly & Schematic – Industrial Tag – 1	Ex/007	-	06/01/11

### 19. Details of Certificate changes Issue 2

Intertek Project No. G100784285

To permit the following changes

Addition of an alternative RFID Tag, Bend-I Tag

Assessment of temperature class. The Tags are now assigned temperature class T5 referred to an ambient temperature of +70°C.

Assessment of the Tags to the latest standards listed below.

EN 60079-0:2009

EN 60079-11:2012

EN 60079-26:2007

The equipment coding is:



II 1 G, Ex ia IIC T5 Ga

-20°C ≤ Ta ≤ +70°C

Revised Drawings:

Title:	Drawing No.:	Rev. Level:	Date:
Marking Plate	Ex/006	03	04/07/12
Assembly & Schematic – Bend-it Tag	Ex/008	00	06/06/12

## SCHEDULE:

EU-Type Examination Certificate Number:

ITS09ATEX26843X Issue 6

### 20. Details of Certificate changes Issue 3

Intertek Project No. G101594654

To permit the following change

Addition of an alternative RFID Tag, RFID Antenna and M-Armada Tag

Revised Drawings:

Title:	Drawing No.:	Rev. Level:	Date:
Marking Plate	Ex/006	04	03/03/14
RFID Antenna	EX/010	1.1	26/02/14
Assembly & Schematic – M-Armada Tag	Ex/011	00	06/03/14

### 21. Details of Certificate changes Issue 4

Intertek Project No. G101877411

To permit the following change:

Change of manufacturing address from A-98, Sector- 4, Noida 201 301, District Gautam Budh Nagar, UP, INDIA to W-1, Sector- 11, Noida, District Gautam Budh Nagar, UP, INDIA.

Revised Drawings:

Title:	Drawing No.:	Rev. Level:	Date:
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No drawing changes required.

### 22. Details of Certificate changes Issue 5

Intertek Project No. G102083005

To permit the following change:

Deletion of reference to RFID Antenna Product Code 186R1

Deletion of associated drawing number EX/010 in Issue 3.

The RFID Antenna is now covered under EC-Type Examination Certificate No ITS15ATEX28239X.

Revised Drawings:

Title:	Drawing No.:	Rev. Level:	Date:
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No drawing changes required.

### 23. Details of Certificate changes Issue 6

Intertek Project No. G103710809

To permit the following change:

Update to latest version of standards.

Change of manufacturing address from W-1, Sector- 11, Noida, District Gautam Budh Nagar, UP, INDIA to A-80 Sector-57, Noida, District Gautam Budh Nagar, UP, India.

Revised Drawings:

Title:	Drawing No.:	Rev. Level:	Date:
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No drawing changes required.