



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx ITS 13.0007X

Issue No: 2

Certificate history:

Issue No. 2 (2019-05-03)

Issue No. 1 (2014-11-26)

Issue No. 0 (2013-02-21)

Status: **Current**

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Date of Issue: **2019-05-03**

Applicant: **PVL Tag Factory (India) Pvt Limited**
A-80 Sector-57,
Noida,
District Gautam Budh Nagar,
UP
India

Equipment: **RFID Tag**

Optional accessory:

Type of Protection: **intrinsic safety 'i'**

Marking:

IECEX ITS 13.0007X

Ex ia IIC T5 Ga

-20°C ≤ Ta ≤ +70°C

*Approved for issue on behalf of the IECEx
Certification Body:*

P Moss

Position:

Certification Officer

*Signature:
(for printed version)*

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Intertek Testing & Certification Limited
ITS House, Cleeve Road,
Leatherhead,
Surrey, KT22 7SA
United Kingdom





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Manufacturer: **PVL Tag Factory (India) Pvt Limited**
A-80 Sector-57,
Noida,
District Gautam Budh Nagar,
UP
India

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended.

STANDARDS:

The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26 : 2014-10 Edition:3.0	Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[GB/ITS/ExTR13.0006/00](#) [GB/ITS/ExTR13.0006/01](#)

Quality Assessment Report:

[GB/ITS/QAR13.0002/03](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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 $P = 200 \text{ mW}$

SPECIFIC CONDITIONS OF USE: YES as shown below:

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



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

ISSUE 0 (Intertek Project Ref 09043070)

- Original Issue.

ISSUE 1 (Intertek Project Ref G101877411)

- 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.**

ISSUE 2 (Intertek Project Ref G103710809)

- 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.**

Annex:

[Issue 2 Appendix.pdf](#)



Annex to IECEx Certificate of Conformity

Certificate No:	IECEx ITS 13.0007X	Issue No. 2
Annex No. 1		

Technical 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