



## 1. EC-TYPE EXAMINATION CERTIFICATE

2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**

3. **EC-Type Examination Certificate Number:** ITS08ATEX25954

4. **Equipment or Protective System:** RFID TAG

5. **Manufacturer:** APK IDENTIFICATION (DELHI)

6. **Address:** SDF # E-30, NSEZ, Phase II, Noida - 201305 (UP)  
INDIA

7. This equipment or protective system 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 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems 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 08035568 dated August 2008 and 101260110 Issue 1 dated October 2013.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN 60079-0:2012 and EN 60079-11:2012 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 equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11. This EC Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. 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 or protective system shall include the following:-



II 2 G, Ex ia IIC T4 Gb (-20°C < Ta < +80°C)

II 2 D, Ex ia IIIC T120°C Db (-20°C < Ta < +80°C)

**Intertek Testing & Certification Limited**  
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**Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.**



**A M Smart**  
Certification Officer  
06 February 2014

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## SCHEDULE

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### 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 Plastic Tag Type 54XXX or Type 52XXX, or a Disc Tag, which may be a 16mm or a 30 mm or a 50 mm diameter.

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 projected area of the plastic enclosure is less than 2000 mm<sup>2</sup> and hence the risk due to electrostatic may be disregarded.

The enclosure provides a degree of protection of IP68.

The electrical parameters are:  
Operating frequency  $f = 100 - 150 \text{ kHz} \ \& \ 13.56 \text{ MHz}$   
Maximum radiated power  $P = 140 \text{ mW}$

### 14. Report Number

Intertek Report Ref: 08035568 dated August 2008 and 101260110 Issue 1 dated October 2013.

### 15. Conditions of Certification

(a). Special Conditions for safe use

None

(b). Conditions of Manufacture

- None

### 16. Essential Health and Safety Requirements (EHSR's)

The relevant EHSR's have been identified and assessed in Intertek Report Ref: 08035568 dated August 2008

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17. Drawings and Documents

Title	Drawing No.:	Rev. Level:	Date:
Plastic Tag- Schematic & Assembly	DRG/PLT/001 sheet 1	P1	08.08.08
Plastic Tag- Electrical Parameters and Bill of Material	DRG/PLT/001 sheet 2	P1	08.08.08
Disc Tag- Schematic & Assembly	DRG/DCT/001 sheet 1	P1	08.08.08
Disc Tag- Electrical Parameters and Bill of Material	DRG/DCT/001 sheet 2	P1	08.08.08
Label- Certification Details	A-5-PGD	0	19.08.08

**REVISIONS:**

**Issue 2:** Certificate dated 20 August 2008 re-issued to correct the standard EN 60079-7:2007 to EN 60079-11:2007 in Item 9.

**Issue 3:** Project No G101260110: To permit the following changes:

- a) Change of name and address of manufacturer from:  
APK Identification, SDF Block # E- 31, NSEZ, Phase 2 Noida, PIN-201305 (UP), New Delhi, INDIA, to  
APK Identification (Delhi), SDF # E-30, NSEZ, Phase II, Noida - 201305 (UP), INDIA
- b) Addition of operating frequency, 13.56 MHz, for the 16 mm tag
- c) Assessment to cover the requirements when the RFID Tag is used in the presence of Dust
- d) Re-assessment of the RFID Plastic and Disc Tags to the latest harmonised European standards given below:  
EN 60079-0:2012, General Requirements  
EN 60079-11:2012, Intrinsic Safety

**Drawings:**

Title	Drawing No.:	Rev. Level:	Date:
Marking Plate	A-5-PGD	-	02.07.13

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