

# 1 EU - TYPE EXAMINATION CERTIFICATE

## 2 Product or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU – Annex III

3 EU - Type Examination Certificate No.: **TRAC14ATEX0022X (incorporating variations V1 to V4)**

4 Product: **iWAP Wireless Zone 1 Access Point Enclosure,  
Models: iWAP107, iWAP107-T, iRFID10x, iRFID10x-T**

5 Manufacturer: **Extronics Limited**

6 Address: **1, Dalton Way, Midpoint 18, Middlewich, Cheshire, CW10 0HU,  
United Kingdom**

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

8 Element Materials Technology, Notified Body number 2812, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this 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 the confidential report **TRA-017717-33-00A, TRA-022925-33-00A, TRA-029449-33-00A & TRA-041201-33-00A.**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:


**EN 60079-0:2012 +A11:2013 EN 60079-1:2014 EN 60079-11:2012  
EN 60079-31:2014**

Except in respect of those requirements listed at section 18 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 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.

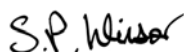
12 The marking of this product shall include the following:

 II 2(1) GD

**Ex db [ia IIC Ga] IIB+H2 T5 Gb -40°C or -20°C ≤ Tamb ≤ 60°C**

**Ex tb [ia Da] IIIC T100°C Db**

This certificate and its schedules may only be reproduced in its entirety and without change. This certificate is issued in accordance with the Element Materials Technology Ex Certification Scheme.



S P Winsor, Certification Manager

Issue date: 2019-11-01

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**13 SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE**

**14 CERTIFICATE NUMBER TRAC14ATEX0022X (incorporating variations V1 to V4)**

**15 Description of Product**

The iWAP107 is a Zone 1 access point enclosure with intrinsically safe RF outputs which is designed to allow the deployment of wireless networks in a hazardous area. The flameproof enclosure is constructed from either aluminium or stainless steel and is secured using 18 x M10 fasteners with a yield strength of 700MPa. Entries into the enclosure are M20/M25/M32 or 1/2, 3/4", 1" NPT. The equipment is either AC powered (90-253Vac) or DC powered (20-30Vdc) and has an option to be POE powered over the Ethernet. The RF output utilises an Extronics iSOLATE-CT-0x RF connector transit (TRAC14ATEX0056X) or any ATEX certified cemented bushing with an external RF N-type connector.

Models covered are :

- iWAP107-DDD (Tamb -20°C to +60°C)
- iWAP107-T-DDD (Tamb -40°C to +60°C)
- iRFID10x- DDD (Tamb -20°C to +60°C)
- iRFID10x-T-DDD (Tamb -40°C to +60°C)

Table of entity parameters	
Parameter	Rf output connector
Um	253Vrms

**16 Test report No. (associated with this certificate issue):** None.

**17 Specific Conditions of Use**

1. Contact Extronics for information on the dimensions of the flameproof joints.
2. The RF output is only to be connected to an antenna suitable for the hazardous location, refer to the galvanic isolator iSOLATE501 RF equipment certificates (IECEX TRC 15.0015X / TRAC15ATEX0050X) or iSOLATE500 RF equipment certificates (IECEX BAS 13.0064X / TRAC13ATEX0112X) and associated instructions.
3. If the RF output connector is not intended to be connected to cable/and or antenna, the output connector must be capped.
4. Flameproof joints are not intended to be repaired.
5. Breather/Drain valves may be fitted providing that they are suitably ATEX/IECEX Ex db equipment certified.
6. Cables connected to the optical input shall be installed according to IEC 60079-14 K.3 and be suitably mechanically protected.



Attention is drawn to the operating and installation instructions which may contain useful information in relation to conditions of use.

**18 Essential Health and Safety Requirements (Directive Annex II)**

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the relevant reports.

**19 Drawings and Documents**

The list of controlled technical documentation is given in Appendix A to this schedule.

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### 20 Routine Tests

None.

### 21 Specific Conditions for Manufacture

1. The products covered by this certificate incorporate previously certified devices, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices and to ensure the correct instruction documents/information is provided to the end user.

### 22 Photographs



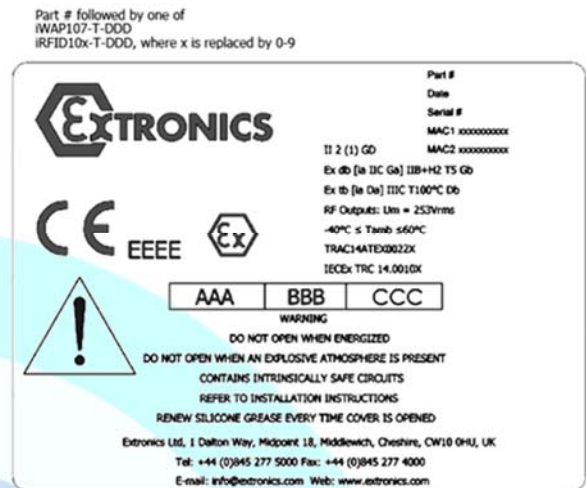
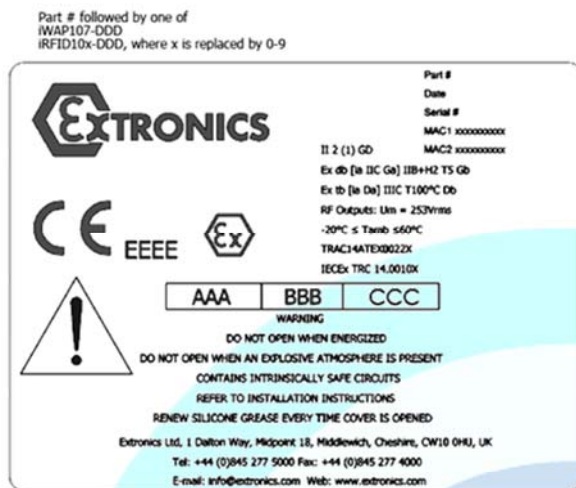
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#### 23 Details of Markings

Standard temperature range –DDD

Extended temperature range –T-DDD



#### Notes

- May be engraved on a plate or on a self-adhesive label
- AAA: Supply voltage e.g. 90-253VAC, 24VDC; configuration-dependent, unlimited length. Voltage must not exceed 253V
- BBB: Supply current e.g. 10A; configuration-dependent, unlimited length
- CCC: Supply frequency e.g. 47-63Hz, DC; configuration-dependent, unlimited length
- DDD: Production option codes, configuration-dependent, unlimited length
- EEEE: Notified body number for production
- MAC1/MAC2 are optional Ethernet MAC addresses for the internal hardware, and may not be present
- Text alignment changes can be made providing the marking remains unchanged and legible

#### 24 Details of Variations to this Certificate

This certificate is a consolidated certificate and reflects the latest status of the certification, including the following variations:

- Variation V1 – Add new model type iRFID10x, extended temperature variants –T. Change in certified enclosure removes the requirement for routine tests.
- Variation V2 – Amendment to allow use of iSOLATE501 to replace iSOLATE500 as a component of the product.
- Variation V3 – Update to standards IEC 60079-1:2014 and IEC 60079-31:2013, coding changed from Ex d to Ex db, addition of Specific Conditions of Use 4,5,6 and the addition of a coin cell.
- Variation V4 - This certificate was originally issued by Notified Body number 0891 under Directive 2014/34/EU. The technical file has been transferred to Element Notified Body number 2812 without further assessment or evaluation.

#### 25 Notes to CE marking

In respect of CE Marking, Element Materials Technology accepts no responsibility for the compliance of the product against all applicable Directives in all applications.

#### 26 Notes to this certificate

Element Materials Technology certification reference: NR-EXTQ-0001

Throughout this certificate, the date format yyyy-mm-dd (year-month-day) is used.

Notified Body number 2812 is the designation for Element Materials Technology Rotterdam BV.

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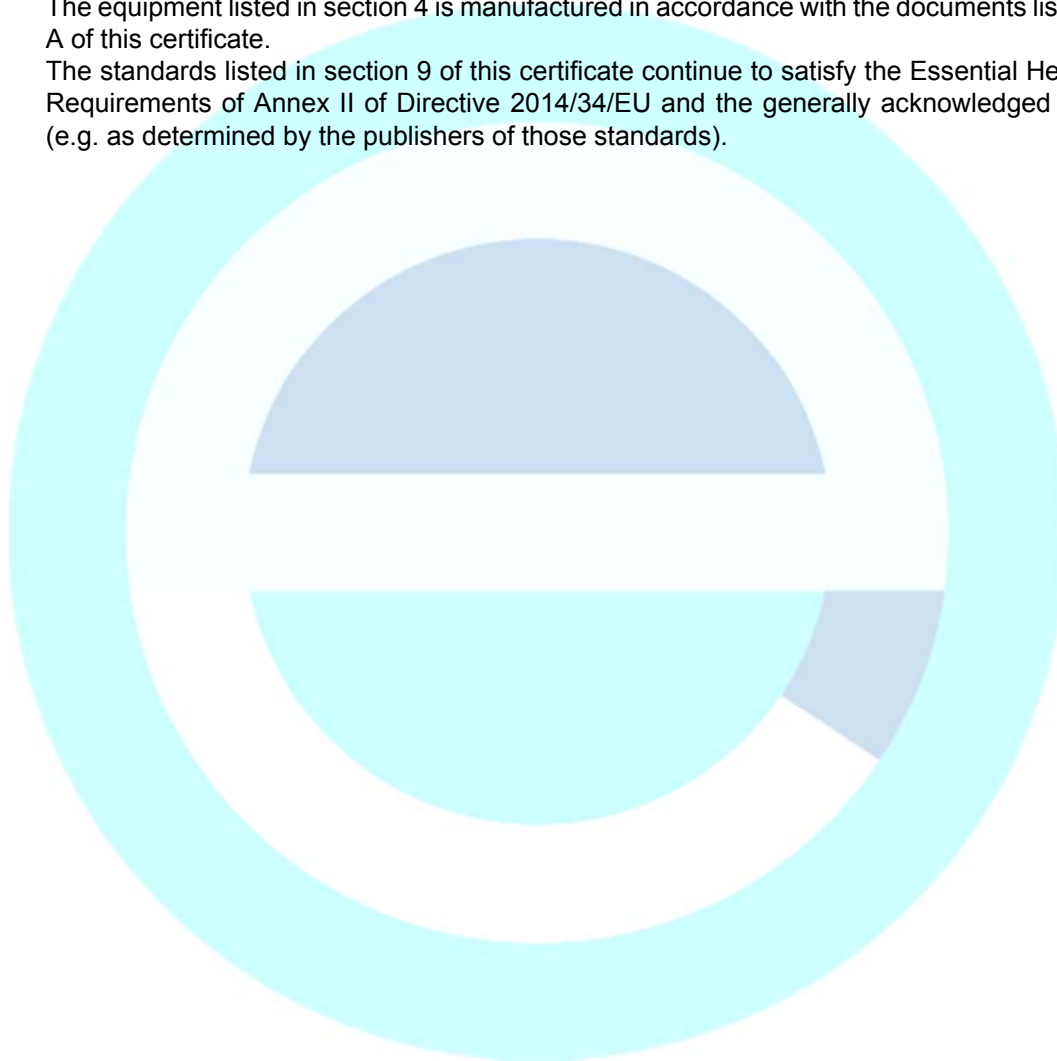
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In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variation certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

#### 27 Conditions for the validity of this certificate

This certificate remains valid for so long as:

- (i) The equipment listed in section 4 is manufactured in accordance with the documents listed in Appendix A of this certificate.
- (ii) The standards listed in section 9 of this certificate continue to satisfy the Essential Health and Safety Requirements of Annex II of Directive 2014/34/EU and the generally acknowledged state of the art (e.g. as determined by the publishers of those standards).



**SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE**

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**APPENDIX A - TECHNICAL DOCUMENTS**

<b>Title:</b>	<b>Drawing No.:</b>	<b>Rev. Level:</b>	<b>Date:</b>
Label Certification IWAP107	403366	4	2019-02-12
Certification drawing ATEX/IECEX IWAP107	403363	4	2019-03-14
Safety Instructions Manual (IWAP107 & IWAP107-T)	403431	3	2019-02-11
Safety Instructions Manual (iRFID10x & iRFID10x-T)	409812	2	2019-02-11

