



¹ EC TYPE EXAMINATION CERTIFICATE

- 2 Equipment or protective system intended for use in potentially explosive atmospheres Directive 94/9/EC – Annex III
- 3 EC Type Examination Certificate No.: **TRAC14ATEX0022X (incorporating variations V1 to V2)**
- 4 Equipment: iWAP Wireless Zone 1 Access Point Enclosure, Models: Model iWAP107, iWAP107-T, iRFID10x, iRFID10x-T 5 Manufacturer: Extronics Ltd.,
- 6 Address: 1, Dalton Way, Midpoint 18, Middlewich, Cheshire, CW10 0HU, United Kingdom.
- 7 This equipment 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 0891 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment or protective system 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.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in section 18 of the schedule to this certificate, has been assured by compliance with:

EN 60079-0:2012 EN 60079-1:2007 EN 60079-11:2012

EN 60079-31:2009

- 10 If the sign "X" is placed after the certificate number then this indicates that the equipment or protective system is subject to special conditions of safe use specified in the schedule to this certificate.
- 11 This EC-Type Examination certificate relates only to the design and construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of this equipment or protective system shall include the following:

II 2(1) GD

$\langle Ex \rangle$ Ex d [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.

SP Willow

S P Winsor, Certification Manager Issue date: 2016-02-25

Page 1 of 5

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13 SCHEDULE TO EC TYPE EXAMINATION CERTIFICATE

14 TRAC14ATEX0022X (incorporating variations V1 to V2)

15 General description of equipment or protective system included within the scope of this certificate

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 or ½ ¾" 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)

A list of controlled Manufacturer's Documents is given in Appendix A to this schedule.

| Table of entity parameters | | |
|----------------------------|--|--|
| Rf output | | |
| connector | | |
| 253Vrms | | |
| | | |

16 Test report No. (associated with this certificate issue): TRA-029449-33-00A.

17 Essential health and safety requirements (Directive Annex II)

Covered by application of the standards listed in section 9 of this certificate and the assessment conducted in the test report listed in section 16 of this certificate.

18 "Special Conditions of Safe Use" for Ex Equipment, if any:

- 1. Contact Extronics for information on the dimensions of the flameproof joints.
- 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.

19 **"Routine tests", if any:**

None.

20 "Special conditions for manufacture", if any:

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.

21 **Other information, if any:**

None.

22 Photographs



23 Details of markings

Standard temperature range –DDD

Part # followed by one of iWAP107-DDD iRFID10x-DDD, where x is replaced by 0-9

Part # Date Serial # RONICS MAC1 XXXXXXXXXXXXX MAC2 XXXXXXXXXXX II 2 (1) GD Ex d [ia IIC Ga] IIB+H₂ T5 GD Ex tb [ia Da] IIIC T100°C Db RF Outputs: U_m = 253V_{cma} C EEEE (Ex $-20^{\circ}C \le T_{amb} \le 60^{\circ}C$ TRAC14ATEX0022X IECEx TRC 14.0010X BBB AAA CCC WARNING DO NOT OPEN WHILE ENERGIZED DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT CONTAINS INTRINSICALLY SAFE CIRCUITS REFER TO INSTALLATION INSTRUCTIONS RENEW SILICONE GREASE EVERY TIME COVER IS OPENED Extronics Ltd, 1 Dalton Way, Midpoint 18, Middlewich, Cheshire CW10 0HU, UK Tel:+44 (0)845 2775000 Fax: +44 (0)8452774000 E-mail: info@extronics.com Web: www.extronics.com

Extended temperature range –T-DDD

Part # followed by one of iWAP107-T-DDD IRFID10x-T-DDD, where x is replaced by 0-9



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.

25 Notes to CE marking

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

26 Notes to this certificate

Element Materials Technology certification reference: TRA-029449-32-00.

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

Notified Body 0891 is the designation for Element Materials Technology Warwick Ltd (formerly known as TRaC Global Ltd).

This certificate is a consolidated certificate and reflects the latest status of the certification, including all variations.

APPENDIX A - LIST OF CONTROLLED MANUFACTURER'S DOCUMENTS

| Title: | Drawing No.: | Rev. Level: | Date: |
|--|--------------|-------------|------------|
| iWAP 107 General Assembly ATEX/IECEx Certification | 403363 | 3.0 | 2016-01-08 |
| iWAP 107 ATEX/IECEx Label Certification Drawing | 403366 | 3.0 | 2015-03-05 |
| iWAP107 ATEX IECEx Manual | 403431 | 2.2 | 2016-01-06 |
| iRFID10x ATEX IECEx Manual | 409812 | 1.2 | 2016-01-06 |

