

1 ATEX CAT 3 Conformity Certificate

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: ExVeritas 19ATEX0530X Issue: 1

4 Equipment: iWAP Wireless Zone 2 Access Point Enclosure
Models: iWAP XN3, iRFID XN3

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 are specified in the schedule to this certificate and the documents therein referred to. The assessments are recorded in ExVeritas project file number EXV2955.

8 The equipment has been assessed against the following Standards and found to comply:

EN IEC 60079-0:2018 EN 60079-7:2015+A1:2018 EN 60079-11:2012
EN IEC 60079-15:2019 EN 60079-31:2014

9 If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

10 ExVeritas takes no responsibility for the validity of any information or data supplied by the manufacturer on which parts of the assessment may be based upon.

11 The marking of the equipment shall include the following:

 II 3 (3) G Ex ec [ic Gc] nR IIC T6 Gc T_{amb} -40°C to +60°C

 II 3 (3) D Ex [ic Dc] tc IIIC T85°C Dc T_{amb} -40°C to +60°C

(See description for additional marking options)



No. 8613

On behalf of ExVeritas



S Clarke CEng MSc FIET
Managing Director

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The certificate is only valid when it carries an original signature.

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Schedule

12 Description of Equipment or Protective System

The iWAP XN3 Zone 2 Access point consists of two main parts, the Ex nR restricted breathing section and an Ex ec increased safety portion to allow for external connections. The Ex nR portion can house wireless equipment and IT/Electrical devices and has various allowable lengths and power limits as detailed below. A PCB or aluminium plate provides the barrier between the Ex nR and Ex ec portions of the enclosure and can be fitted with suitably certified glands or through board connections. The RF outputs of the iWAP XN3 are galvanically isolated to make them intrinsically safe to allow for the connection of any suitable antenna. The enclosure is made from aluminium alloy and provides IP66 ingress protection.

Length of nR enclosure	Maximum total internal power dissipation
≥ 150mm	58W
≥ 200mm	80W
≥ 300mm	93W

In addition, the enclosure provides Ex tc protection by enclosure for hazardous dust applications again with the RF outputs being galvanically isolated.

The iWAP XN3 may also be fitted with the Extronics iSOLATE501 in which case the marking becomes:

 II 3 (1) G Ex ec [ia Ga] nR IIC T6 Gc T_{amb} -40°C to +60°C
 II 3 (1) D Ex [ia Da] tc IIIC T85°C Dc T_{amb} -40°C to +60°C

In addition the iWAP XN3 may be provided without RF outputs in which case the coding becomes:

 II 3 G Ex ec nR IIC T6 Gc T_{amb} -40°C to +60°C
 II 3 D Ex tc IIIC T85°C Dc T_{amb} -40°C to +60°C

Alternative ambient temperature ranges within the certified limits may be marked when appropriate for the service temperature of installed equipment.

Maximum input voltage = 253V AC 60V DC.

iRFID XN3 is an alternative model name for the iWAP XN3.

12.1 Details of Change:

The following changes are introduced in issue 1 of the certificate:

- To allow the use of equipment which has an already certified intrinsically safe RF output without the need to include the DC block.
- Update of GA drawing with additional details to provide clarity during production.
- Update of label drawing.
- Update to PCB layout drawing to allow additional flexibility for component locations.
- Inclusions of additional locations for external earth point.
- Inclusion of optional N-Type bulk-head stopping plug.

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Issue 1

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Schedule

13 Descriptive Documents

13.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R1771/A/1	11/11/2019	0	Initial issue of the Prime Certificate
R2955/A/1	06/04/2021	1	Issue of the first variation, see section 12.1 for details.

13.2 Compliance Drawings:

Issue 0

Title:	Drawing No.:	Rev. Level:	Date:
General Assembly Certification iWAP XN3 (Pages 1-5)	X122912	1	11/11/2019
Manual Safety ATEX/IECEX iWAP XN3	X123263	1	11/11/2019

Issue 1

Title:	Drawing No.:	Rev. Level:	Date:
General Assembly Certification iWAP XN3 (Sheets 1 to 6))	X122912	2	04/03/2021
Schematic Interface Plate PCB iWAP XN3 (Sheet 1 of 1)	X124219	3	3/2/2021
PCB Layout Drawing Certification Interface Plate PCB iWAP XN3 (Sheets 1 to 4)	X124220	3	3/2/2021
Manual Safety ATEX/IECEX iWAP XN3 (Sheets 1 to 7)	X123263	2	26 October 2020

14 Conditions of Certification

14.1 Special Conditions for Safe Use

- The equipment is not to be mounted in an area with a high airflow dust laden atmosphere, in addition, cleaning of the enclosure shall only be with a damp cloth.
- The enclosure shall only be mounted in a vertical orientation with the top plate face up.
- The connection between the antenna and the factory installed N-type connector shall maintain at least IP54.
- The 'ec' portion of the enclosure may contain a USB console connection. When fitted this connection is for service purposes only and shall not be used in normal operation.

14.2 Conditions of manufacture

Routine tests

- The restricted breathing enclosure shall be subjected to a routine restricted breathing test in accordance with clause 12.2.2.1.2 of EN IEC 60079-15:2019. **NOTE** – The restricted breathing portion of the enclosure is not intended to be opened in service.
- The equipment shall be subject to a routine dielectric strength test in accordance with clause 7.1 of EN 60079-7:2015. Refer to General Assembly drawing X122912.

15 Essential Health and Safety Requirements

Essential Health and Safety Requirements are addressed by the standards listed in section 8 and where required the report listed in section 13.1

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Issue 1

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