EXTRONICS

iWAP XN3 X2000

INSTALLATION AND OPERATING MANUAL

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Contents

1 Introduction

The iWAP XN3 X2000 has been designed to enable long-range BLE capability into the Zone 2 / Division 2 hazardous areas (Gas or Dust). It features a ruggedized enclosure, integrated TPM chip, 1GB of ram and both BLE and Wi-Fi outputs into a single company solution.

BLE5.0 technology allows the iWAP XN3 X2000 to extend range as far as 1KM and enables remote control of up to 40 Bluetooth Low Energy devices (and hundreds in broadcast mode) without requiring any changes to end devices.

The RF outputs of the iWAP XN3 X2000 are galvanically isolated to make them intrinsically safe, allowing users to choose non-certified antennas for use with their wireless hardware – such as the Extronics iANT2xx range of high quality rugged outdoor antennas. Any antennas not listed in the Extronics range must be assessed by the user to ensure they meet the requirements for installation of non-electrical equipment in hazardous areas.

With IP66 / Type 4 (NEMA standards) ingress protection and a Marine grade copper-free aluminium alloy, e-coat with epoxy powder coated enclosure plus the option of surge protection, the iWAP XN3 X2000 is suitable for a wide variety of industrial and off-shore locations including chemical and pharmaceutical plants, oil refineries, FPSOs and oil and gas platforms.

Note
The graphic on the front page shows the x 2 available configurations of the iWAP XN3 X2000 and are shown for informational purposes only. Throughout the manual, where possible, actual iWAP XN3 X2000 pictures, CAD renders and drawings are used, but where these are not available, or where exact representation is not required then indicative detail is shown in place.

2 Safety Information and Notes

2.1 Storage of this Manual

Keep this user manual safe and in the vicinity of the device. All persons required to work on or with the device should be advised on where the manual is stored. Conserver ce manuel d'utilisation en lieu sûr et à proximité de l'appareil. Toutes les personnes devant travailler sur ou avec l'appareil doivent être informées de l'endroit où est rangé le manuel.

2.2 Special Conditions for Safe Use / Conditions particulières d'utilisation

2.2.1 ATEX/IECEx

1. The equipment is not to be mounted in a high airflow dust laden atmosphere and should only be cleaned with a damp cloth.
2. The equipment is to be mounted in a vertical orientation with the Ec connection box at the base.
3. The connection between the antenna and the factory installed N-type connector shall maintain at least IP54.

2.2.2 MET

1. 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. L'équipement ne doit pas être monté dans une zone à l'atmosphère à haut débit d'air chargé de poussière. En outre, le nettoyage du boîtier ne doit être effectué qu'avec un chiffon humide.
2. The enclosure shall only be mounted in a vertical orientation with the top plate face up. Le boîtier doit être monté uniquement orienté à la verticale, avec la plaque supérieure face vers le haut.
3. The connection between the antenna and the factory installed N-type connector shall maintain at least IP54. La connexion entre l'antenne et le connecteur de type N installé en usine doit préserver au moins un IP54.
4. Temperatures may exceed 70°C at the junction box gland entry point and 80°C at the cable branching point, use suitably rated cable and cable entry devices. La température peut dépasser 70 °C au point d'entrée du presse-étoupe du boîtier de raccordement, et 80 °C au point de dérivation du câble. Utiliser un câble et des dispositifs d'entrée de câbles d'une puissance suffisamment adaptée.

2.3 List of Notes

The notes supplied in this chapter provide information on the following.

- Warning!
  - Possible hazard to life or health.
- Caution
  - Possible damage to property.
- Important
  - Possible damage to enclosure, device or associated equipment.
- Information
  - Notes on the optimum use of the device

Warning!	**Installation of the iWAP XN3 X2000 must be performed in accordance with IEC 60079-14 and IEC 60079-25. Maintenance and inspection must be performed in accordance with IEC 60079-17.**

Avertissements!	**L'installation de l'iWAP iWAP XN3 X2000 doit être effectuée conformément aux normes CEI 60079-14 et CEI 60079-25. La maintenance et l'inspection doivent être réalisées conformément à la norme CEI 60079-17.**

Warning!	**Installation of the iWAP XN3 X2000 is only to be performed by skilled electricians and instructed personnel in accordance with national legislation.**

Warning!	**The iWAP XN3 X2000 contains INTRINSICALLY SAFE circuits.**

Warning!	**The iWAP XN3 X2000 Intrinsically Safe RF output ports are located in the positions shown in Section 3.3. Only antennas in accordance with Section 3.11 may be connected to these ports. Refer to vi**

Warning!	**The iWAP XN3 X2000 MUST be earthed. It must be connected to the plant earth system using at least one of the external bonding points, using a minimum 4mm² conductor. The earth cable must be installed in accordance with the requirements of IEC 60079-14. Refer to Section 3.4 for details. The cover plate earth bond must not be removed.**

Avertissements!	**L'iWAP XN3 X2000 doit être mis à la terre. Il doit être raccordé au système de mise à la terre de l'installation, en utilisant au moins un des points externes de liaison à la terre, avec un conducteur d'un minimum de 4 mm2. Le câble de terre doit être installé conformément aux exigences de la norme CEI 60079-14.**

Warning! **The iWAP XN3 X2000 front cover plate earth bond must not be removed.**

Avertissements! **La liaison à la terre de la plaque de protection de l'iWAP XN3 X200 ne doit pas être retirée.**

Warning! **The iWAP XN3 X2000 internal power input connector has an earth connection, which must be terminated to the protective earth conductor of the incoming power supply.**

Warning! **The iWAP XN3 X2000 must NOT be installed in hazardous areas requiring Category 1, 2, M1 or M2 equipment.**

Warning! **The iWAP XN3 X2000 enclosure must NOT be opened when an explosive gas or dust atmosphere is present, or when the equipment is energized.**

Avertissements! **L' iWAP XN3 X2000 ne doit pas être ouvert dans une atmosphère contenant de la poussière ou un gaz explosif, ni lorsque l'équipement est sous tension.**

Warning! **iWAP XN3 X2000 enclosure must be secured only with the bolts supplied, and these must be tightened to the correct torque value. See Section 3.2.2 for details. Contact Extronics for replacement bolts.**

Avertissements! **La plaque de protection de l'iWAP XN3 ne doit être fixée qu'avec les boulons fournis et serrés à la valeur de couple correcte.**

Warning! **The iWAP XN3 X2000 enclosure must only be fitted with suitably approved cable entry devices. See Section 3.3 for details.**

Avertissements! **L'iWAP XN3 X2000 ne doit être monté qu'avec des composants d'entrée de câbles correctement évalués.**

Warning! **When PoE is used to power the iWAP XN3 X2000 in a C1D2 location, the source must be an NRTL certified device with outputs compliant with IEEE 802.3af/at.**

Avertissements! **Quand PoE est utilisé pour alimenter l'iWAP XN3 X2000 dans un emplacement C1D2, la source doit être un appareil certifié NRTL avec des sorties conformes à IEEE 802.3af/at.**

Warning! Do not exceed the RF Threshold Power for the equipment group in which the iWAP XN3 X2000 and its antennas are to be installed; it must be controlled in accordance with IEC 60079-0, and must not exceed the following levels:

IIC – 2W (+33dBm)
IIB – 3.5W (+35.4dBm)
IIA – 6W (+37.7dBm)
III – 6W (+37.7dBm)

See Section 3.10.1 for an example of how to calculate the RF Threshold Power

Avertissements! Ne pas dépasser la puissance RF seuil pour le groupe d'équipement, dans lequel le iWAP XN3 X2000 et ses antennes doivent être installés ; il doit être contrôlé conformément à la norme CEI 60079-0.

Warning! The iWAP XN3 X2000 must not be modified in any way.

Warning! Hazardous voltages are present within the iWAP XN3 X2000 enclosure.

Warning! Hot surfaces may be present on the iWAP XN3 X2000 enclosure - observe any warning labels fitted.

Warning! Optical radiation hazards may be present within the iWAP XN3 X2000 enclosure – observe any warning labels fitted.

Warning! The XN3 X2000 may weigh up to 12 Kg. Exercise care when handling and mounting.

Warning! DO NOT lift the XN3 X2000 using the threaded entries or N-type RF connectors. Good manual handling practice should be followed.

Warning! User access: Normal user access to the enclosure is through the cover plate and junction box

Avertissements! Accès utilisateur: L'accès normal d'un utilisateur au boîtier s'effectue par la plaque de protection et le boîtier de raccordement.

Warning!	**Special access: If the main enclosure is opened, integrity of the main enclosure sealing must be confirmed by a competent person**

Avertissements!	**Accès special: Si le boîtier principal est ouvert, l'intégrité de son étanchéité doit être confirmée par une personne compétente.**

Warning!	**The XN3 X2000 protective plastic transport caps fitted to all threaded cable entries MUST be replaced with suitably certified cable glands or stopping plugs before installation in a hazardous area.**

Warning!	**Although antennas connected to the Intrinsically Safe RF outputs of the XN3 X2000 may be installed in a hazardous areas requiring Category 1 equipment, the XN3 enclosure must NOT be installed in these environments.**

Warning!	**Maintenance and inspection of the XN3 X2000 must be performed in accordance with IEC 60079-17.**

Important	**Before setting the units to work, read the technical documentation carefully.**

Important	**The latest version of the technical documentation or the corresponding technical supplements is valid in each case.**

Important	**Do not exceed the power supply parameters specified on the XN3 X2000 external rating plate.**

Important	**Ensure that only the correct fibre transceiver format/power is connected to the XN3. Damage to the XN3 X2000 fibre interface or customer equipment may occur if the wrong format/excessive optical power is used.**

Important	**Ensure that NO TOOLS come into contact with the gasket of the enclosure, as this may cause irreparable damage and render the unit unsafe.**

Important	**The XN3 X2000 may be powered from a number of different power sources, depending on its configuration. Refer to the rating plate of the unit supplied for details.**

Important	**There should be no need to enter the unit and change the fuse as it is resettable.**

3 Installation

3.1 Mounting

Mount the XN3 X2000 enclosure to a suitable structure, using the mounting points shown.

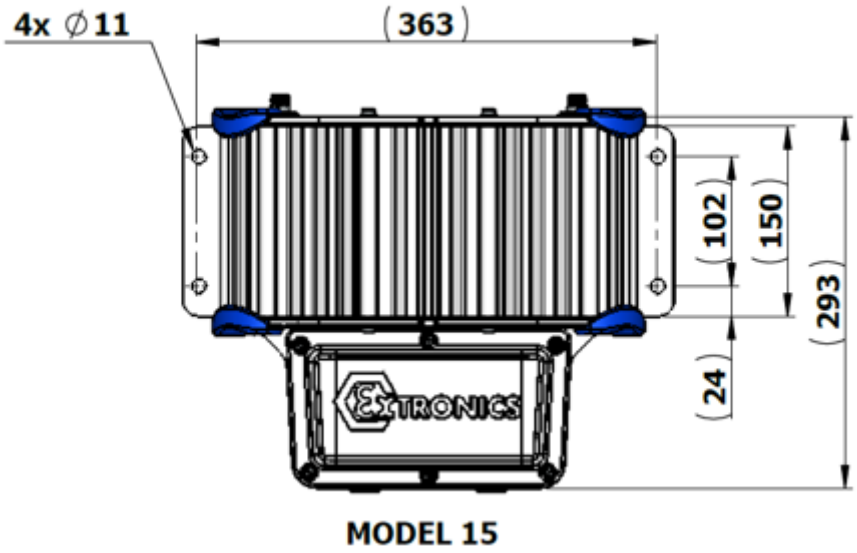


Figure 1: Aluminium Enclosure Mounting Dimensions

3.2 Opening and Closing the Enclosure

3.2.1 Opening the front cover plate

- Remove all bolts using a metric hex key. Store the bolts carefully to avoid damage or loss.
- Ensure care is taken when removing the cover. Do not use a screwdriver or any other sharp implement to prise the cover apart as it may damage the sealing gasket.

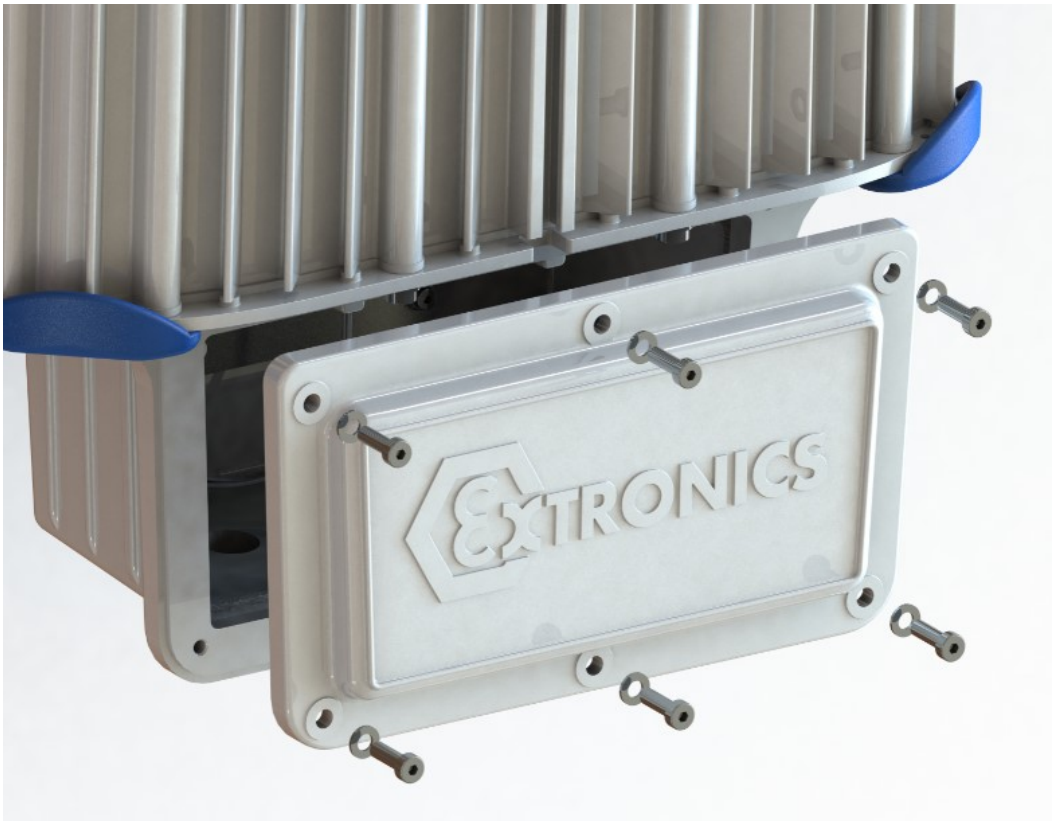


Figure 1: Opening XN3 Front Cover Plate

3.2.2 Closing the Enclosure

- Inspect the gasket to ensure its sealing integrity. If the front cover gasket is damaged, it must be replaced.
- Check all bolts are the correct type and free from damage.
- Re-insert the bolts and hand-tighten only.
- Using a torque wrench fitted with an 3mm hex head, tighten the bolts in opposite corners of the enclosure, from the top right, to the bottom left, bottom right, to bottom left. Then the top centre followed by bottom centre. Tighten to a torque of 3.5Nm.

3.3 Cable Entries

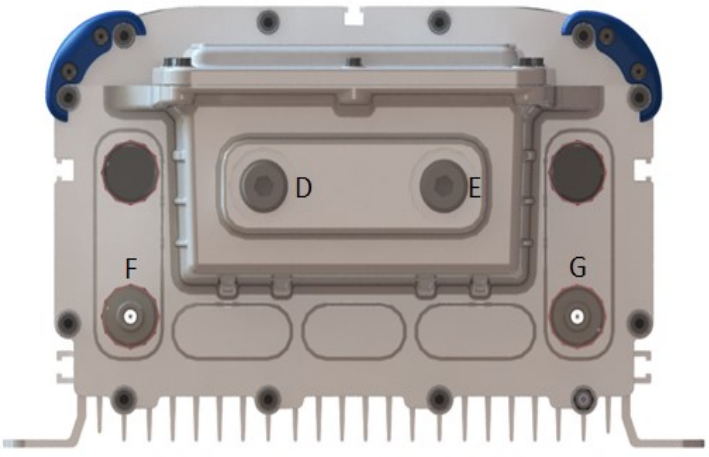
3.3.1 Typical Cable Entries and Connections

A typical XN3 X2000 enclosure is supplied with entries and connectors as shown.

- Connections B,F and G, aswell as A and C (when fitted) are INTRINSICALLY SAFE outputs providing galvanically isolated RF signals (see Section 3.10 for details), carried on conventional 50Ω impedance N-type female connections.

The N-type connections are the front part of the bulkhead which transit through the enclosure and are approved as part of the XN3 X2000 certification.

- Apply suitably certified cable entry devices to the junction box cable entries (marked D and E) as appropriate
    - Thread size is M20x1.5 (or 3/4”NPT if thread adaptors have been requested)
- Make off the connections inside the junction box.
    - Remove cover plate and keep bolts for reassembly
    - When refitting cover plate, only use supplied bolts and tighten to torque 3.5Nm per 3.2.2. Check seal position and condition.
    - Check with Extronics for more information if required.



3.4 Earthing

3.4.1 Location of XN3 X2000 enclosure external earth bond points

There are M6 threaded earth boss bonding point situated within the junction box, Figure 4. Removal of the front cover plate is required to access the area. Before putting in service:

- Perform applicable electrical safety checks.
- Visually check integrity of seals.

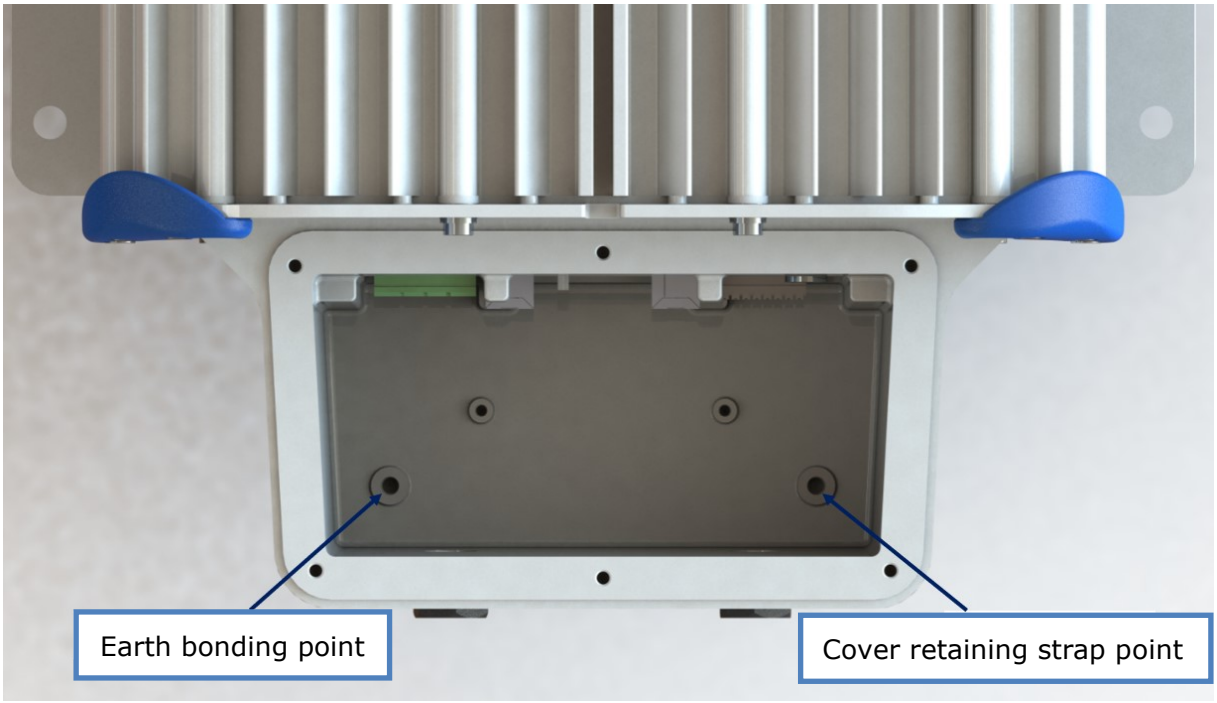


Figure 4: XN3 X2000 Enclosure External Earth Bond Points

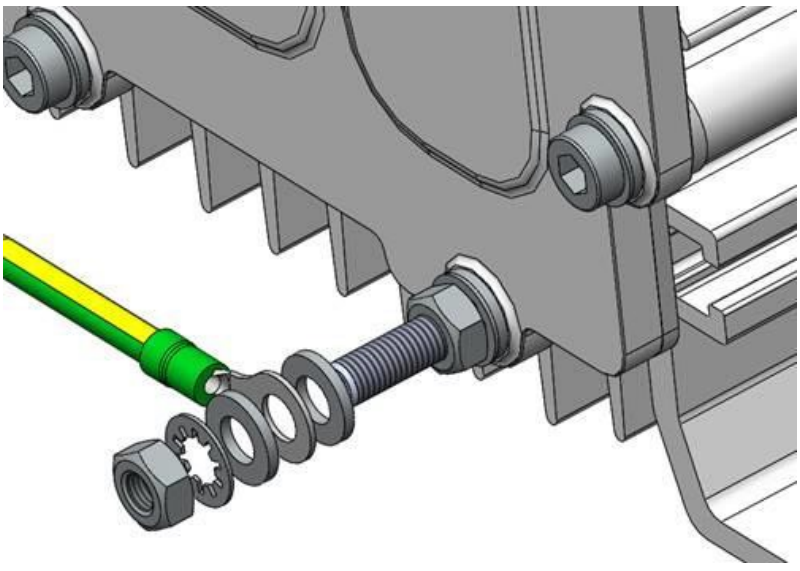
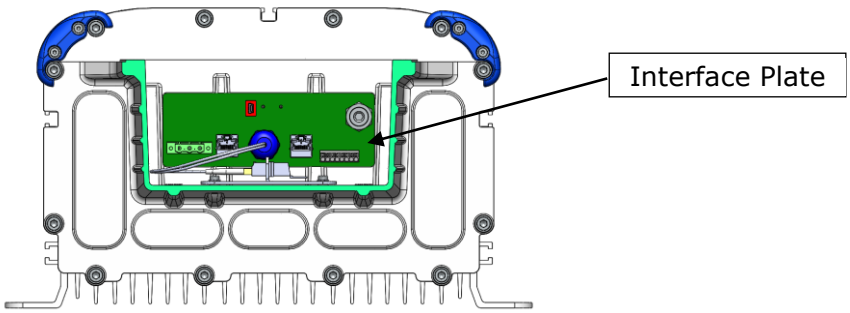


Figure 5: External connection points

3.5 Electrical Installation

View inside a representative junction box:



See Figure 6 and Table1.

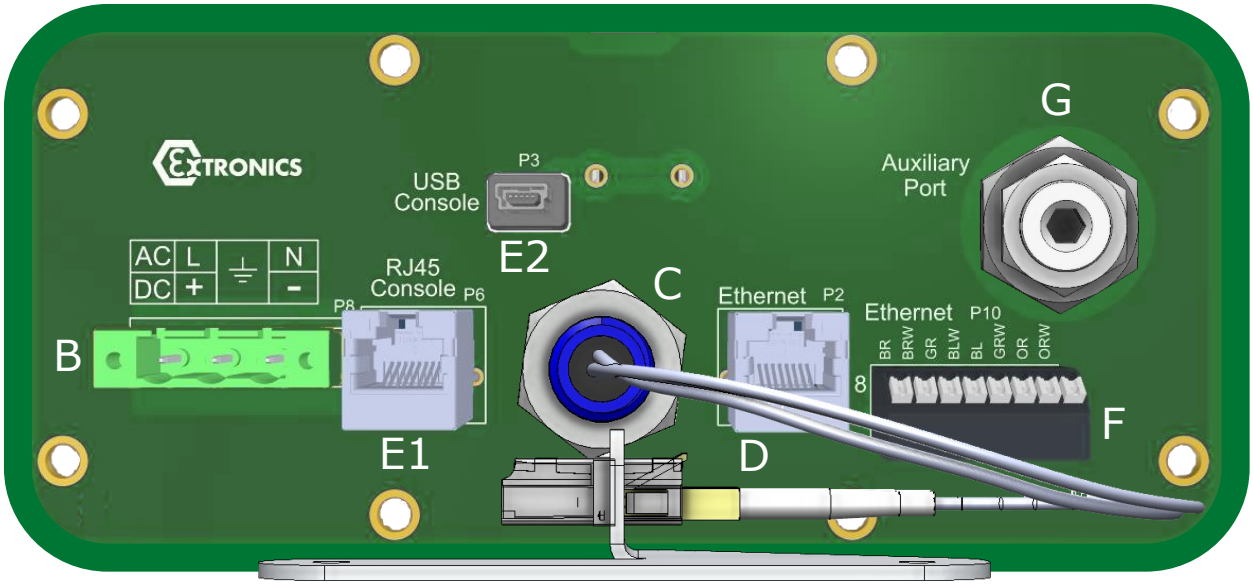


Figure 6: XN3 Internal Connections Showing All Options

Designator	Purpose	Comments
B	Power input	Mains (L,N,E) or DC (+,-,E) input, dependent on product configuration.
C	Fibre input cabled to separate dual LC coupler.	Can be replaced by a blanking plate, depending on product options. None fibre configurations will be supplied with a different PCBA that excludes this designator.
D	Ethernet/PoE/PoE(+) input	For Ethernet/PoE/PoE+ connection via RJ45.
E1	Console port	Present on PCB but not connected on XN3 X2000
E2	Console port	Present on PCB but not connected on XN3 X2000
F	PoE/PoE(+) input	As an alternative to D. Present but not connected on XN3 X2000.
G	Auxiliary port	Pressure test port

Table 1: XN3 Internal Connection/Features

3.6 Power Supply / Input Connector

The mains power connection is a phoenix socket on the PCB. The plug part is Phoenix contact 1795789. It requires a minimum tightening torque of 0.5Nm.

Wire Type	Minimum Cross-Sectional Area	Maximum Cross-Sectional Area
Single Solid Core	0.2mm^2	2.5mm^2
Single Stranded Wire	0.2mm^2	2.5mm^2

Table 2: XN3 X2000 Power Connector Wire Gauges

3.7 Fuse Rating

The XN3 X2000 is fitted with a single resettable fuse on the Live circuit, of either 750mA for AC input units or 2.5A for DC input.

If there is a power fault, the fuse may activate in which case power should be removed from the unit and reapplied.

3.8 External Overcurrent Protection

The XN3 should be installed on a circuit with a double-pole circuit breaker of a maximum rating of 25A. This is the maximum current rating of the smallest internal chassis earth bond in accordance with EN60950-1 2.6.3.3. Refer to Extronics if it becomes necessary to exceed this rating.

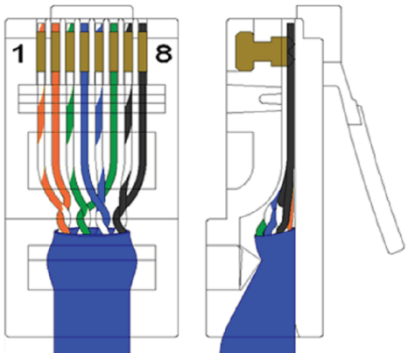
3.9 Data Connections

3.9.1 Copper Ethernet

Information	**Check that the line speed of the switch port to which the XN3 X2000 is connected matches the XN3 X2000 port configuration, otherwise communication may not be established.**

If Copper Ethernet is specified, this will be terminated in a standard CAT5E/CAT6E RJ45 Socket on the front plate of the XN3 X2000, Position D in Figure 6. The interface will be an IEEE 10/100/1000BaseT format.

Terminate the RJ45 plug as follows (EIA 568B standard):



Pin	Function
1	OE/WE
2	OE
3	GN/WE
4	BE
5	BE/WE
6	GN
7	BN/WE
8	BN

Figure 7: RJ45 EIA 568B Plug Wiring

3.9.2 Power-Over-Ethernet (POE)(POE+)

If Power-Over-Ethernet (POE)/(POE+) is used, then an IEEE 802.3af or IEEE 802.3at compliant source is required.

3.9.3 Optical Fibre

The XN3 X2000 optical fibre format may be any of the following, refer to product option codes for details, information is typical.

MMF	1000Base-SX	LC Duplex Multimode	-3 to -9.5dBm (62/125µm) -1 to - 9dBm (50/125µm)	-19dBm	-1dBm	850nm	Up To 550m
SMF	1000Base-LX	LC Duplex Single	-3 to -9.5dBm (62/125µm)	-20dBm	-3dBm	1310nm	Up to 20km

Table 3: Fibre Formats

3.10 Intrinsically Safe RF Outputs

Refer to Figure 8 for location of Intrinsically Safe RF outputs.

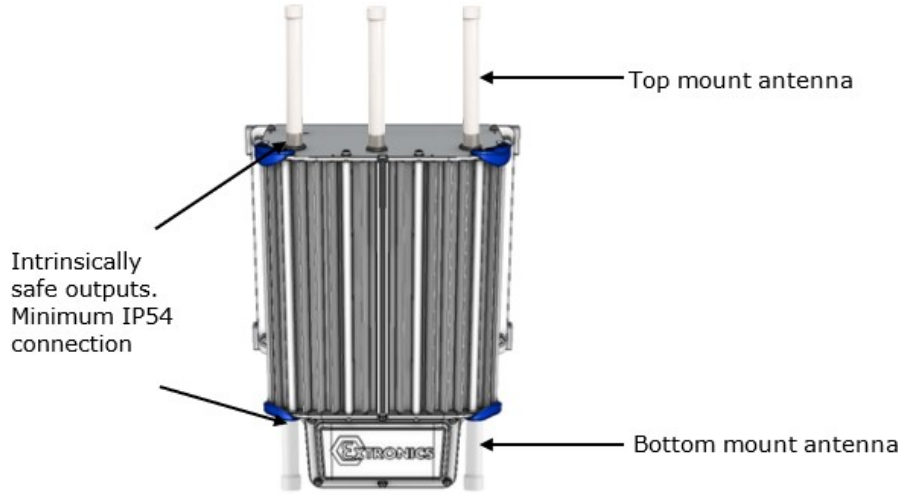
3.10.1 Example of RF threshold power calculation

The following example shows how the RF threshold power may be calculated:

Maximum transmitter output power (from transmitter datasheet) = 20dBm (100mW)
Coaxial cable loss = 2dB
Antenna gain = 5dBi

Threshold power = 20dBm – 2dB + 5dBi
Threshold power = 23dBm (200mW)

<u>Representative Configuration Example – Direct Moutning Antennas</u>



Representative Configuration Example – Remote Mount Antennas

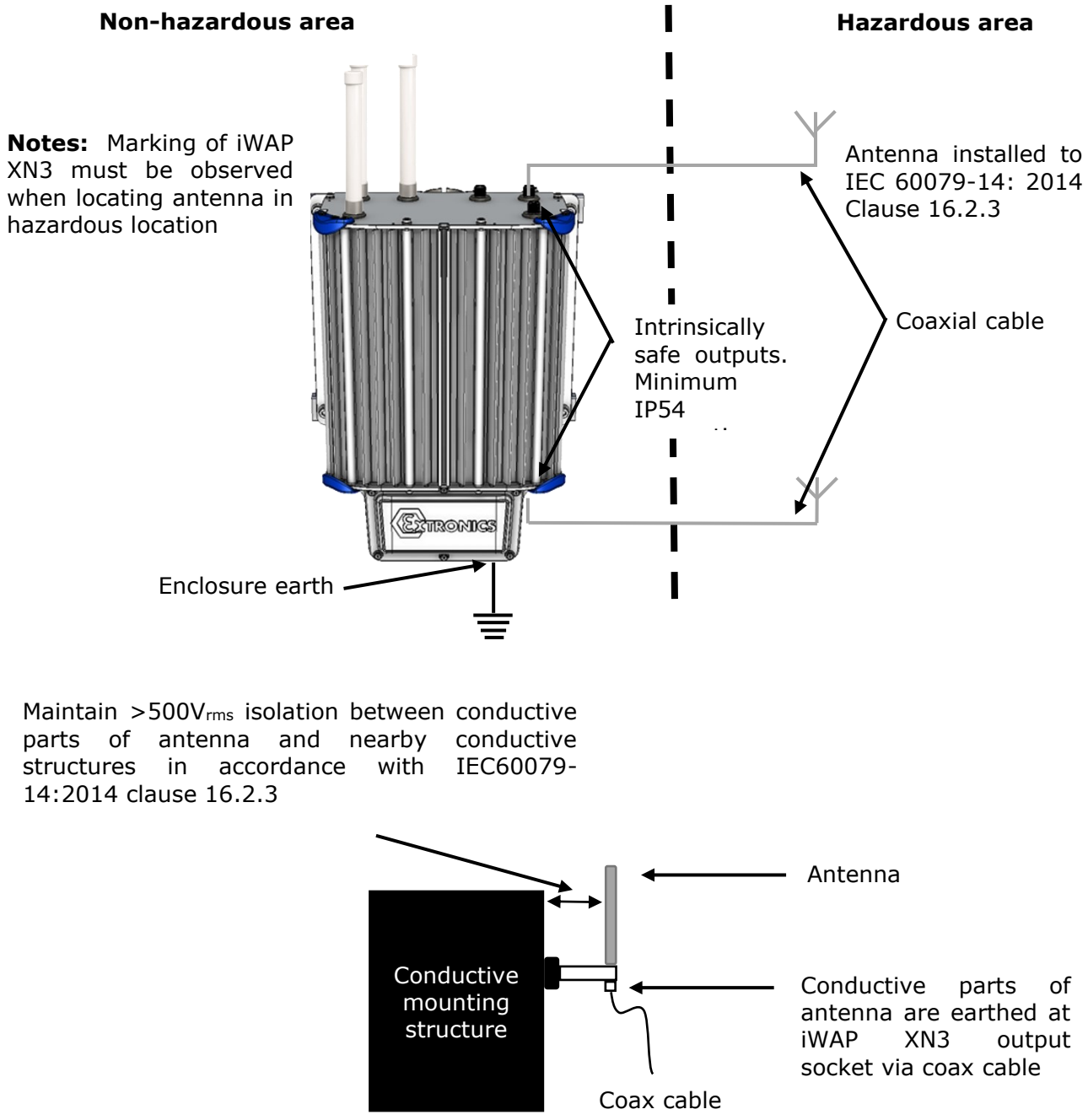


Figure 8: XN3 IS RF Installation Diagram

3.11 Antenna Requirements

Antennas connected to the XN3 X2000 Intrinsically Safe RF outputs must be assessed as 'simple apparatus' in accordance with IEC 60079-11. Antennas supplied by Extronics for use with the XN3 X2000 already meet these requirements. It is possible to assess other antennas for this purpose, contact Extronics for details.

3.12 Antenna Installation

Antennas approved by Extronics for use with the XN3 X2000 may either be fitted directly to the RF connectors of the unit or via a length of coaxial cable.

If antennas are sited remotely from the XN3 X2000 enclosure, any metallic parts of the antennas must be isolated from earth by >500$V_{r.m.s}$, to prevent hazardous earth currents from flowing in the coaxial cable.

3.13 Ex Main Enclosure Test

If required, the integrity of the main enclosure sealing can be checked. To order at Pressure Test Kit use order code iWAPTK01.

Sealing integrity confirmed if under constant temperature conditions, the time interval required for an internal pressure of 0.3kPa (+10%, -0%) below atmosphere to change to half the initial value shall not be less than 180 seconds.

4 Intended Purpose Usage

The XN3 X2000 is built using modern components and is extremely reliable in operation. It must only be used for its intended purpose. Please note that the intended purpose also includes compliance with the instructions issued by the manufacturer for installation, setting up and service.

Any other use is regarded as conflicting with the intended purpose. The manufacturer is not liable for any subsequent damage resulting from such inadmissible use. The user bears the sole risk in such cases.

4.1 Transportation and Storage

All XN3 devices must be so transported and stored that they are not subjected to any excessive mechanical stresses.

4.2 Authorized Persons

Only persons trained for the purpose are authorized to handle the XN3; they must be familiar with the unit and must be aware of the regulation and provisions required for explosion protection as well as the relevant accident prevention regulations.

4.3 Cleaning and Maintenance

The XN3 and all its components require no maintenance. All work on the XN3 by personnel who are not expressly qualified for such activities will cause the Ex approval and the guarantee to become void.

4.4 Cleaning and Maintenance Intervals

The cleaning intervals depend on the environment where the system is installed.

4.5 Aggressive substances and environments

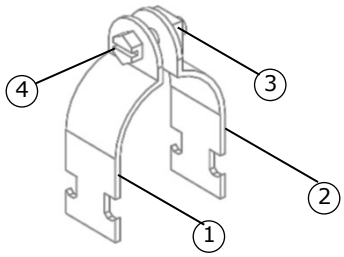
The XN3 is not designed to encounter aggressive substances or environments, please be aware that additional protection may be required.

4.6 Exposure to external stresses

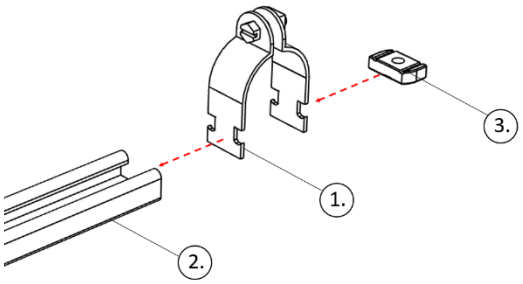
The XN3 is not designed to be subjected to excessive stresses e.g. vibration, heat or impact. Additional protection is required to protect against these external stresses.

The XN3 will require additional protection if it is installed in a location where it may be subjected to damage.

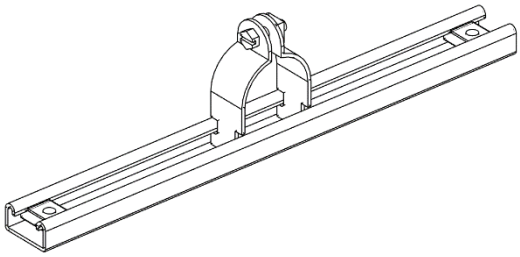
5 Pole Mounting

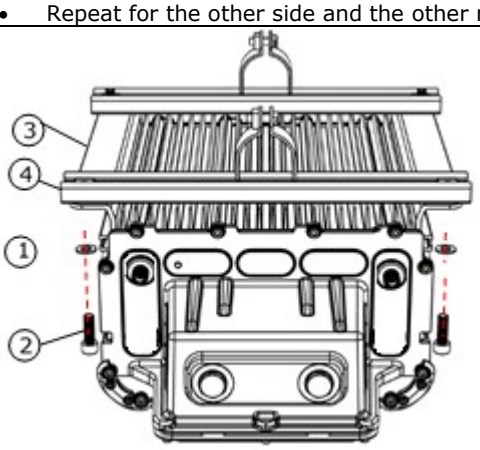


- Using the clamp brackets (1) and (2) place them together as shown.
- Align the square nut (3) on one side and secure with the fixing screw (4).



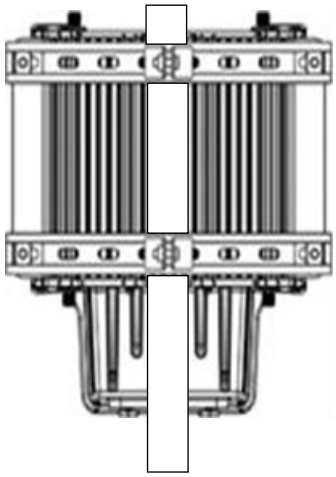
- Align the pole mounting bracket (1) with the end of the rail (2) and slide it down the rail as shown.
- Align the fixing nut (3) and repeat the process.
- Repeat for the other side and the other rail.





- The above is how one rail should look when ready to fit to the iWAPXN3-X2000 unit.

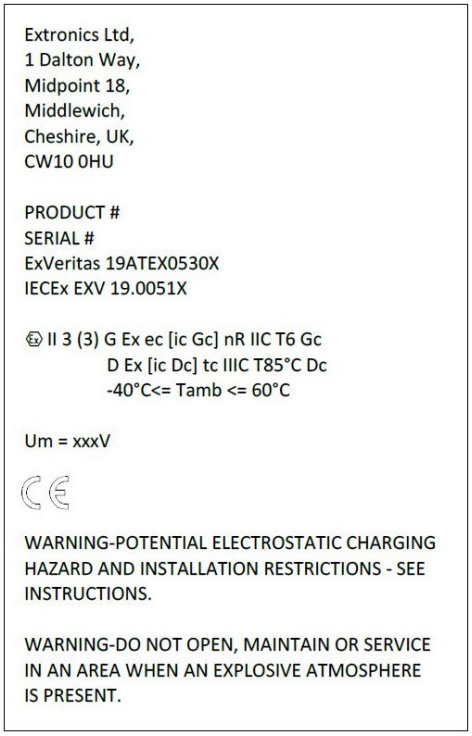
- Place the iWAPXN3-X2000 on a protective surface.
- Align both rails on the rear.
- Using washer 1, affix this in to the fixing screw 2 and pass through both the chassis and the mounting rail and screw in to the prefitted nut.
- Repeat for the other side and the other rail.



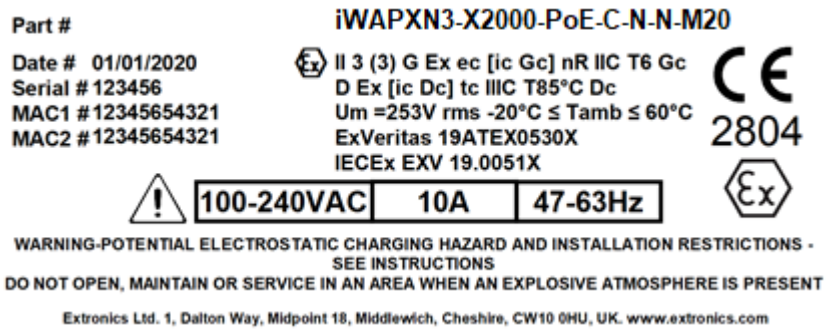
- The unit is now ready to slide on to the mounting pole.
- Tighten all fixings and pole moutning is complete.

6 Marking information

6.1.1 ATEX/IECEx



- Um = 60Vdc or 253Vac depending on customer specification.



6.1.2 MET

Extronics Ltd,
1 Dalton Way,
Midpoint 18,
Middlewich,
Cheshire, UK,
CW10 0HU

1 ---- PRODUCT #
2 ---- SERIAL #
3 ---- DATE#

EXXXXXX

4 ---- Class I, Division 2, Groups A - D
Class II, Division 2, Groups F - G
Class I, Zone 2 AEx ec [ic Gc] nR IIC T6 Gc
Class II, Zone 22 AEx [ic Dc] tc IIIB T85°C Dc
-40°C <= Tamb <= 60°C

Um = xxxV

WARNING-POTENTIAL ELECTROSTATIC CHARGING HAZARD AND INSTALLATION RESTRICTIONS - SEE INSTRUCTIONS.
AVERTISSEMENT - RISQUE DE CHARGE ÉLECTROSTATIQUE ET RESTRICTIONS D'INSTALLATION - VOIR LES INSTRUCTIONS.
DO NOT OPEN, MAINTAIN OR SERVICE IN AN AREA WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.
NE PAS OUVRIR, ENTRETENIR OU RÉPARER DANS UNE ZONE À ATMOSPHÈRE EXPLOSIVE.
REFER TO INSTRUCTION DOCUMENT FOR SPECIFIC CONDITIONS OF USE.
SE REPORTER AU DOCUMENT D'INSTRUCTION POUR LES CONDITIONS PARTICULIÈRES D'UTILISATION.

vvv V cc	aaa A	fff Hz

RATING INFORMATION:

Um= xxx (SEE SHEET 1, NOTE 2)	vvv V cc	aaa A	fff Hz
60Vdc	0-60Vdc	0-7A	Not Used
253Vac	0-253Vac	0-2A	47-53Hz

MAXIMUM AND MINIMUM VALUES SHOWN
ACTUAL VALUES DEPEND ON INSTALLED EQUIPMENT

7 Type Codes

Refer to iWAP XN3 X2000 datasheet.

The iWAP XN3 X2000 conforms to the following standards:

7.1.1 ATEX/IECEx

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

7.1.2 MET

- UL60950-1, Second Edition: Safety of Information Technology Equipment, Rev. March 27 2007
- CSA C22.2 No. 60950-1, Second Edition: Safety of Information Technology Equipment, Rev. March 27 2007
- UL 60079-0, 7th Ed: Standard for Explosive Atmospheres - Part 0: Equipment - General Requirements; 2019-03-26
- UL 60079-7, 5th Ed: Standard for Explosive Atmospheres - Part 7: Equipment Protection by Increased Safety “e”; 2017-02-24
- UL 60079-11, Ed 6: Explosive Atmospheres - Part 11: Equipment Protection by Intrinsic Safety 'i'; 2018-09-14
- UL 60079-15, Ed 4: Explosive atmospheres - Part 15: Equipment protection by type of protection 'n'; 2017-05-05
- CSA C22.2 NO 60079-0: 2015; Standard for Explosive Atmospheres - Part 0: Equipment - General Requirements
- CSA C22.2 NO 60079-7: 2016; Standard for Explosive Atmospheres – Part 7: Equipment protected by Increased Safety “e”
- CSA C22.2 NO 60079-11: 2014 (R2018); Standard for Explosive Atmospheres – Part 11: Equipment protected by Intrinsic Safety “i”
- CSA C22.2 NO 60079-15: 2018; Standard for Explosive Atmospheres – Part 15: Equipment protected by type of protection “n”

8 EU Declaration of Conformity

EU Declaration of Conformity

Extronics Ltd, 1 Dalton Way, Midpoint 18, Middlewich, Cheshire CW10 0HU, UK

Equipment Type: **iWAP XN3-X2000**

This declaration is issued under the sole responsibility of the manufacturer

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation.

Directive 2014/34/EU Equipment and protective systems intended for use in potentially explosive atmospheres (ATEX)

Provisions of the directive fulfilled by the equipment:

II 3 (3) **G Ex ec [ic Gc] nR IIC T6 Gc**
D Ex [ic Dc] tc IIIC T85°C Dc
-40°C ≤ T_{amb} ≤ 60°C

Notified Body **Ex Veritas 2585** performed EU-Type Examination and issued the EU-Type certificate.

EU-Type Examination Certificates:

19ATEX0530X Issue 0

Notified Body for Production:

Ex Veritas 2804

Harmonised Standards used:

EN 60079-0:2018	Explosive atmospheres – Part 0: Equipment - General requirements
EN 60079-7:2015+A1:2018	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
EN 60079-11:2012	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
EN 60079-15:2019	Explosive atmospheres – Part 15: Part 15: Equipment protection by type of protection "n"
EN 60079-31:2014	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

The equipment type may be fitted with one, two or any combination of the following certified cable entry devices as required by the application to form a system.

CMP 737 Adaptors
II 2 G Ex eb IIC Gb
II 1 D Ex ta IIIC Da
(CML 18ATEX1320X)

CMP 767 Dome Stopper Plug
II 2 G Ex eb IIC Gb
II 1 D Ex ta IIIC Da
(CML 18ATEX1320X)

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It is confirmed that installation of these devices when fitted was done in accordance with the manufacturer's instructions/requirements. Further, all special conditions of use that associated with the equipment above have been considered, and where appropriate, complied with.

Selection and installation of the devices named above when fitted to the equipment by Extronics is also conducted in accordance with the provision of the following directives:

EN60079-14:2014	Explosive atmospheres - Part 14: Electrical installations design, selection & erection

Directive 2014/30/EU EMC Directive

Harmonised Standards Used:

BS EN 61000-6-2:2005	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments
BS EN 61000-6-4:2007+A1:2011	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments

Directive 2011/65/EU Restriction of the use of certain hazardous substances (RoHS) Compliant.

Other Standards and Specifications used:

BS EN 62368-1:2014	Audio/video, information, and communication technology equipment - Safety requirements

For and on behalf of Extronics Ltd, I declare that, on the date the equipment accompanied by this declaration is placed on the market, the equipment conforms with all technical and regulatory requirements of the above listed directives.

Signed

Nick Saunders

Operations Director

Date: 24th August 2021
X127506(1)

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Document Number X127590(1) Refer to Extronics DDM for release status. Based on type approval documents X123263 and X124186.

The graphic on the front page shows the x 2 configurations of the iWAP XN3 X2000 and are shown for informational purposes only. Throughout the manual, where possible, actual iWAP XN3 X2000 pictures, CAD renders and drawings are used, but where these are not available, or where exact representation is not required then indicative detail is shown in place.

For warranty information, refer to Terms and Conditions at http://www.extronics.com

Extronics reserve the right to change this manual and its contents without notice, the latest version applies.