

# Explosion Proof Armadex Ex UAP-AC-PRO Wi-Fi Access Point



## Features

- ATEX Zone 2 and 22 version
- Indoor and outdoor use: IP66
- Unlimited scalability
- Dual band 2,4/5 GHz
- Cloud controlled system
- Intuitive software

 II 3G Ex ec IIC T6 Gc  
 II 3D Ex tc IIIC T85°C Dc

## Explosion proof wireless data transfer is here to stay

Today ATEX Wi-Fi infrastructure is a necessity for collecting data for (preventative) maintenance purposes, stock management and tracking personal movements in:

Food & Beverage industry (alcohol fumes, sugar and herbal ingredients), Warehouses (storage and handling of plant materials or chemicals), Oil & Gas refineries, Offshore industry, Pharmacy and Chemical industry

## High performance in hazardous areas

Armadex Explosion Protection B.V. offers explosion proof ATEX Wi-Fi infrastructure for safe and maximum performing wireless networks. Deploy the ATEX modified Ubiquiti UniFi AC Pro AP in hazardous areas ATEX zone 2 and ATEX zone 22. (Equipment category 3G and 3D).

Featuring simultaneous, dual-band, 3x3 MIMO technology and convenient 802.3af PoE/802.3at PoE+ compatibility.

Armadex Explosion Protection B.V. optionally includes an ATEX junction box for longer LAN cable distances and/or more convenient cable paths.

## Explosion Safety Specifications (ATEX)

|                   |                                     |
|-------------------|-------------------------------------|
| EU Directive      | 2014/34/EU (ATEX 114)               |
| ATEX marking gas  | II 3G Ex ec IIC T6 Gc               |
| ATEX marking dust | II 3D Ex tc IIIC T85°C Dc           |
| Applied standards | EN 60079-0, EN 60079-7, EN 60079-31 |

# Explosion Proof Armadex Ex UAP-AC-PRO Wi-Fi Access Point



## Explosion proof Wireless Connections for ATEX zone 2 or 22



### General Technical Specifications

|                                                      |                                                                                                     |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Dimensions                                           | H121 x W250 x D255 mm                                                                               |
| Weight                                               | 2.6 Kilo                                                                                            |
| Mounting                                             | Wall or ceiling mount brackets                                                                      |
| Networking Interface                                 | (2) 10/100/1000 Ethernet Ports                                                                      |
| Buttons                                              | Reset                                                                                               |
| Antennas                                             | (3) Dual-Band Antennas, 2.4 GHz: 3 dBi, 5 GHz: 6 dBi                                                |
| WiFi Standards                                       | 802.11 a/b/g/n/ac                                                                                   |
| Power Method                                         | Passive Power over Ethernet (48V), 802.3af/803.2at Supported (Supported Voltage Range: 44 to 57VDC) |
| Power Supply                                         | 48V, 0.5A PoE Gigabit Adapter*                                                                      |
| Maximum Power Consumption<br>With Optional Accessory | 9W<br>20W                                                                                           |
| Maximum TX Power<br>2.4 GHz<br>5GHz                  | 22 dBm<br>22 dBm                                                                                    |
| BSSID                                                | Up to Four per Radio                                                                                |
| Power Save                                           | Supported                                                                                           |
| Wireless Security                                    | WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES)                                                   |
| Certifications                                       | CE, FCC, IC                                                                                         |
| Operating Temperature                                | -10 to 70°C (14 to 158°F)                                                                           |



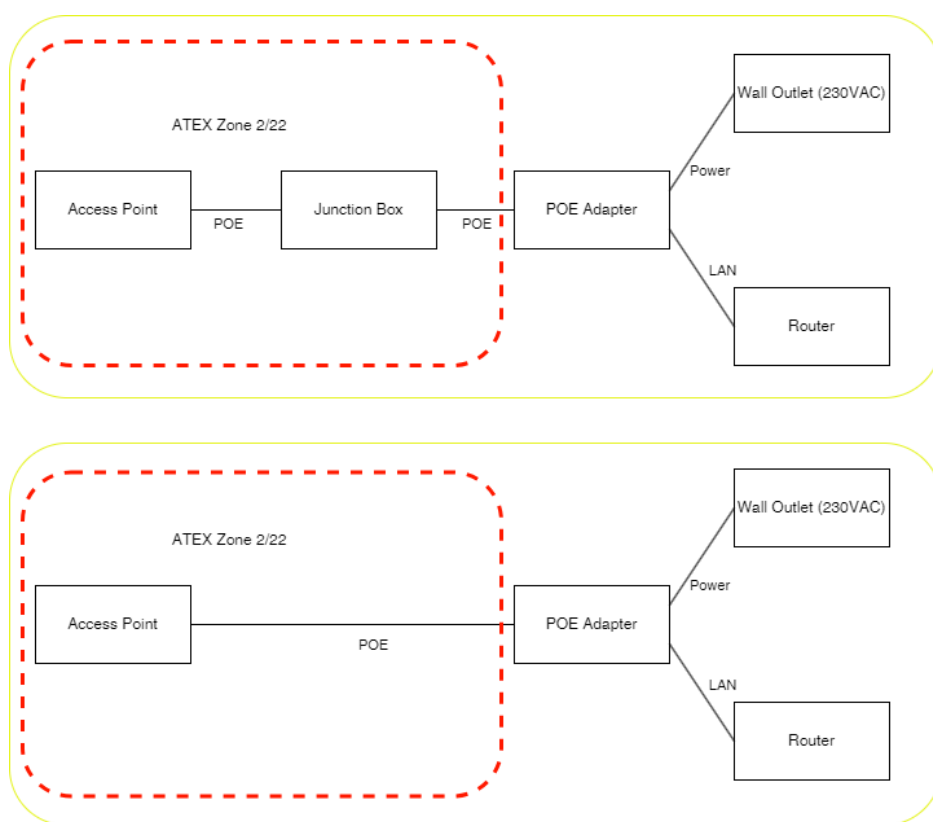
Armadex Ex UAP-AC-Pro  
Wi-Fi Access Point, Cable  
and optional Junction Box

# Explosion Proof Armadex Ex UAP-AC-PRO Wi-Fi Access Point



## Figure Electrical Connections

The figure below shows the electrical connections for operation with and without junction box.  
The red dashed square is the border of the hazardous area.



Delivered with POE adapter and power cord



Detail of optional Junction Box



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V1 | 7-2024

# Explosion Proof

## Armadex Ex UAP-AC-PRO

### Wi-Fi Access Point



#### EU Declaration of Conformity

No. AM-X24ATEX2550X

In accordance with EN ISO/IEC 17050-1:2010

1. *Product model / product:*

Product ATEX Explosion Proof WiFi Access Point  
Model/type Armadex Ex UAP-AC-PRO

2. *Manufacturer:*

Name Armadex Explosion Protection B.V.  
Address Tinststraat 33, 2984 AN, Ridderkerk, The Netherlands  
Telephone / Web +31 180 472880 / [www.armadex.com](http://www.armadex.com)

3. *This declaration of conformity is issued under the sole responsibility of the manufacturer.*

4. *Object of the declaration:*

Product Explosion Proof WiFi Access Point, Cable and Junction Box  
and PoE supply for non-hazardous area  
Specification Power Supply: 48VDC, 20Watt  
PoE type 802.3af (POE supply outside hazardous area)

ATEX Marking  II 3G Ex ec IIC T6 Gc / II 3D Ex tc IIIC T85°C Dc IP66

5. *The object of the declaration described above is in conformity with the relevant EU harmonization legislation:*

**ATEX DIRECTIVE 2014/34/EU** "Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres"

6. *References to the relevant harmonized standards used or references to the other technical specifications in relation to which conformity is declared:*

| Reference & Date  | Title                                                                     |
|-------------------|---------------------------------------------------------------------------|
| EN 60079-0 : 2018 | Explosive atmospheres – Part 0: Equipment – General requirements          |
| EN 60079-7 : 2015 | Explosive atmospheres - Part 7: Equipment protection increased safety "e" |
| EN 60079-31: 2024 | Explosive atmospheres - Part 31: Equipment protection by enclosure "t"    |

7. *Additional information:*

(X) Specific conditions of use are specified in the accompanying user manual of the equipment

THIS DECLARATION IS NOT A WARRANTY OF ATTRIBUTES WITHIN THE MEANING OF THE LAW CONCERNING PRODUCT LIABILITY. THE SAFETY INSTRUCTIONS GIVEN IN THE INSTALLATION MANUAL MUST BE OBSERVED. THE APPARATUS SHALL ONLY BE OPERATED UNDER THE CONDITIONS AS DESCRIBED IN THE USER MANUAL.

Signed for and on behalf of: Armadex Explosion Protection B.V.  
Place of issue: Ridderkerk, The Netherlands  
Date of issue: 05-07-2024  
Name: G. A. van Tienhoven, MSc. of Engineering  
Function: Director  
Signature: 



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# Explosion Proof

## Armadex Ex UAP-AC-PRO

### Wi-Fi Access Point



#### Declaration of Conformity

No. AM-X24UKEX2550X

In accordance with BS EN ISO/IEC 17050-1:2010

1. *Product model / product:*

Product UKEX Explosion Proof WiFi Access Point  
Model/type Armadex Ex UAP-AC-PRO

2. *Manufacturer:*

Name Armadex Explosion Protection Ltd.  
Address 7 Albert Street, Aberdeen AB25 1XX, Scotland, UK.  
Telephone / Web +44 1224 679258 / www.armadex.com

3. *This declaration is issued under the sole responsibility of the manufacturer.*

4. *Object of the declaration:*

Product Explosion Proof WiFi Access Point, Cable and Junction Box  
and PoE supply for non-hazardous area  
Specification Power Supply: 48VDC, 20Watt  
PoE type 802.3af (POE supply outside hazardous area)

UKEX Marking  II 3G Ex ec IIC T6 Gc / II 3D Ex tc IIIC T85°C Dc IP66

5. *The object of the declaration described above is in conformity with the relevant UK Statutory Instruments:*

2016 No. 1107 Equipment and Protective Systems Intended for Use in Potentially  
Explosive Atmospheres Regulations

6. *References to the relevant designated standards used or references to the other technical specifications in relation to which conformity is declared:*

| Reference & Date  | Title                                                                     |
|-------------------|---------------------------------------------------------------------------|
| EN 60079-0 : 2018 | Explosive atmospheres – Part 0: Equipment – General requirements          |
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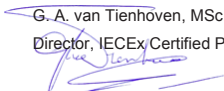
Signed for and on behalf of: Armadex Explosion Protection Ltd.

Place of issue: Aberdeen, UK

Date of issue: 05-07-2024

Name: G. A. van Tienhoven, MSc. of Engineering

Function: Director, IECEx Certified Person

Signature: 



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