



# CERTIFICATE

## 1 Type Examination Certificate

2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres  
**Directive 2014/34/EU**

3 Type Examination Certificate Number: **KIWA 19ATEX0034 X** Issue: **1**

4 Product: **Wireless Router type MSA ALTAIR io360 HUB**

5 Manufacturer: **MSA Europe GmbH**

6 Address: **Schlüsselstr.12, 8645 Rapperswil-Jona  
Switzerland**

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

8 Kiwa Nederland B.V. 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 Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.  
The examination and test results are recorded in confidential ATEX Assessment Report No. 180300377.

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

**EN IEC 60079-0 : 2018**

**EN 60079-7 : 2015 + A1 : 2017**

**EN 60079-11 : 2012**

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This Type Examination Certificate relates only to the design of the specified product and not to specific items of equipment subsequently manufactured.

12 The marking of the product shall include the following:



**II 3 G Ex ec ic IIC T4 Gc**

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Ronald Karel  
Division Manager

Issue date:

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First issue:

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This certificate shall, as far as applicable, be revised before the date of cessation of presumption of conformity of (one of) the included standards above as communicated in the Official Journal of the European Union.

© Integral publication of this certificate in its entirety and without any change is allowed.

## 13 SCHEDULE

### 14 Type Examination Certificate KIWA 19ATEX0034 X

Issue No. 1

#### 15.1 Description of Product

The Wireless Router type MSA ALTAIR io360 HUB provides wireless connectivity for MSA wireless devices to internet or intranet. The router acts as a gateway and integrates different wired and wireless technologies signals like Wifi, Bluetooth, Ethernet, LTE (GSM), GPS and telemetry radio.

The router is powered by an external 24 VDC power supply via a plug and socket combination and can optionally be equipped with a wired ethernet cable through a cable gland.

The wireless signals are transmitted via a combination antenna and a bar antenna.

The front of the router is equipped with a number of indicator LED's.

Ambient temperature range: -20 °C to +60 °C

The Wireless Router enclosure provides a degree of protection of IP67 in accordance with EN 60529.

#### 15.2 Electrical Data

Power supply: 24 V DC; 5W

#### 15.3 Instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

### 16 ATEX Assessment Report Number

180300377.

### 17 Specific Conditions of Use

The Wireless Router type MSA ALTAIR io360 HUB:

- 1) shall be installed and maintained such that the risk of electrostatic discharge is minimized;
- 2) shall be protected from UV emitting light;
- 3) shall be installed in the upright position in accordance with the instructions;
- 4) shall be protected against an impact energy in excess of 4J on the power supply plug and connector;
- 5) shall only be used in an area of not more than pollution degree 2, as defined in IEC 60664-1.

### 18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at section 9.

For this product the standard EN IEC 60079-0 : 2018 is equivalent to the harmonized standard EN 60079-0 : 2012 + A11 : 2013 in terms of safety.

### 19 Drawings and Documents

As listed in ATEX Assessment Report No. 180300377.